

Vapor Prime Primer A ICP Construction Inc

Version No: 3.4

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **09/16/2024** Print Date: **09/16/2024** S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

| Product name | Vapor Prime Primer A | |
|-------------------------------|---------------------------|--|
| Synonyms | Not Available | |
| Proper shipping name | Resin Solution, flammable | |
| Other means of identification | Not Available | |

Recommended use of the chemical and restrictions on use

Relevant identified uses Primer

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

| Registered company name | ICP Construction Inc | | |
|-------------------------|---|--|--|
| Address | 0 Dascomb Road Andover MA 01810 United States | | |
| Telephone | 1-866-667-5119 1-978-623-9987 | | |
| Fax | Not Available | | |
| Website | www.icpgroup.com | | |
| Email | sds@icpgroup.com | | |

Emergency phone number

| <u> </u> | | |
|-----------------------------------|----------------|--|
| Association / Organisation | ChemTel | |
| Emergency telephone numbers | 1-800-255-3924 | |
| Other emergency telephone numbers | 1-813-248-0585 | |

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Flammable Liquids Category 2, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1

Label elements

Hazard pictogram(s)







Signal word

Danger

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| H225 | lighly flammable liquid and vapour. | |
|------|--------------------------------------|--|
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H318 | Causes serious eye damage. | |

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

| 1 Todationary Statement (b) 1 Tovernion | | | |
|---|--|--|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. | | |
| P233 | Keep container tightly closed. | | |
| P240 | Ground/bond container and receiving equipment. | | |
| P241 | Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment. | | |
| P242 | Use only non-sparking tools. | | |
| P243 | Take precautionary measures against static discharge. | | |
| P261 | Avoid breathing mist/vapours/spray. | | |
| P264 | Wash all exposed external body areas thoroughly after handling. | | |
| P272 | Contaminated work clothing must not be allowed out of the workplace. | | |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. | | |
| | | | |

Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | | | |
|----------------|--|--|--|--|
| P310 | mediately call a POISON CENTER/doctor/physician/first aider. | | | |
| P370+P378 | case of fire: Use alcohol resistant foam or normal protein foam to extinguish. | | | |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. | | | |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. | | | |
| P362+P364 | Take off contaminated clothing and wash it before reuse. | | | |

Precautionary statement(s) Storage

P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name | |
|------------|-----------|--|--|
| 68915-81-1 | 5-10 | linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer | |
| 4067-16-7 | 0.1-1 | pentaethylenehexamine | |
| 112-57-2* | 0.1-1 | tetraethylenepentamine. | |
| 111-40-0 | 0.1-1 | diethylenetriamine | |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures

If this product comes in contact with the eyes:

Eye Contact

- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- ▶ Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- ► Transport to hospital or doctor without delay.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

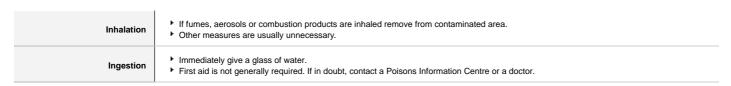
If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

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Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

- ▶ Foam
- ► Dry chemical powder.
- ► BCF (where regulations permit).

Special hazards arising from the substrate or mixture

Fire Incompatibility

▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters

| Special protective equipment and precautions for fire-fighters | | | | |
|--|---|--|--|--|
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves in the event of a fire. | | | |
| Fire/Explosion Hazard | Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat, flame and/or oxidisers. Vapour may travel a considerable distance to source of ignition. Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. | | | |

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| Minor Spills | Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. | | |
|--------------|--|--|--|
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. | | |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling | Containers, even those that have been emptied, may contain explosive vapours. | Do NOT cut, drill, grind, weld or perform similar operations on or near containers. | Avoid all personal contact, including inhalation. | Wear protective clothing when risk of exposure occurs. | Use in a well-ventilated area. | DO NOT allow clothing wet with material to stay in contact with skin | Store in original containers in approved flame-proof area. | No smoking, naked lights, heat or ignition sources. | DO NOT store in pits, depression, basement or areas where vapours may be trapped.

Conditions for safe storage, including any incompatibilities

| | Packing as |
|--------------------|----------------|
| Suitable container | ▶ Plastic cont |

- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- ► Check that containers are clearly labelled and free from leaks.

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- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.
- For materials with a viscosity of at least 2680 cSt.

- ▶ are highly reactive with acids, bases, and oxidising and reducing agents.
- react, possibly violently, with anhydrous metal chlorides, ammonia, amines and group 1 metals.
- ▶ may polymerise in the presence of peroxides or heat polymerisation may be violent
- ▶ may react, possibly violently, with water in the presence of acids and other catalysts.

Formaldehyde:

- ▶ is a strong reducing agent
- remay polymerise in air unless properly inhibited (usually with methanol up to 15%) and stored at controlled temperatures
- will polymerize with active organic material such as phenol
- reacts violently with strong oxidisers, hydrogen peroxide, potassium permanganate, acrylonitrile, caustics (sodium hydroxide, yielding formic acid and flammable hydrogen), magnesium carbonate, nitromethane, nitrogen oxides (especially a elevated temperatures), peroxyformic
- is incompatible with strong acids (hydrochloric acid forms carcinogenic bis(chloromethyl)ether*), amines, ammonia, aniline, bisulfides, gelatin, iodine, magnesite, phenol, some monomers, tannins, salts of copper, iron, silver.
- acid catalysis can produce impurities: methylal, methyl formate

Aqueous solutions of formaldehyde:

- ▶ slowly oxidise in air to produce formic acid
- attack carbon steel

Storage incompatibility

Concentrated solutions containing formaldehyde are:

- unstable, both oxidising slowly to form formic acid and polymerising; in dilute aqueous solutions formaldehyde appears as monomeric hydrate (methylene glycol) - the more concentrated the solution the more polyoxymethylene glycol occurs as oligomers and polymers (methanol and amine-containing compounds inhibit polymer formation)
- readily subject to polymerisation, at room temperature, in the presence of air and moisture, to form paraformaldehyde (8-100 units of formaldehyde), a solid mixture of linear polyoxymethylene glycols containing 90-99% formaldehyde; a cyclic trimer, trioxane (CH2O3), may also form

Flammable and/or toxic gases are generated by the combination of aldehydes with azo, diazo compounds, dithiocarbamates, nitrides, and strong reducing agents

*The empirical equation may be used to determine the concentration of bis(chloromethyl)ether (BCME) formed by reaction with HCI: $log(BCME)ppb = -2.25 + 0.67 \cdot log(HCHO) ppm + 0.77 \cdot log(HCl)ppm$

Assume values for formaldehyde, in air, of 1 ppm and for HCl of 5 ppm, resulting BCME concentration, in air, would be 0.02 ppb. Glycidyl ethers:

- may form unstable peroxides on storage in air ,light, sunlight, UV light or other ionising radiation, trace metals inhibitor should be maintained at adequate levels
- may polymerise in contact with heat, organic and inorganic free radical producing initiators
- may polymerise with evolution of heat in contact with oxidisers, strong acids, bases and amines
- react violently with strong oxidisers, permanganates, peroxides, acyl halides, alkalis, ammonium persulfate, bromine dioxide
- attack some forms of plastics, coatings, and rubber
- ▶ Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---|--------------------|--------------------|-----------------|---------------|---------------|--------|
| US NIOSH Recommended Exposure Limits (RELs) | diethylenetriamine | Diethylenetriamine | 1 ppm / 4 mg/m3 | Not Available | Not Available | [skin] |

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|------------------------|----------|-----------|-----------|
| tetraethylenepentamine | 15 mg/m3 | 130 mg/m3 | 790 mg/m3 |
| diethylenetriamine | 3 ppm | 8.5 ppm | 51 ppm |

| Ingredient | Original IDLH | Revised IDLH |
|--|---------------|---------------|
| linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer | Not Available | Not Available |
| pentaethylenehexamine | Not Available | Not Available |
| tetraethylenepentamine | Not Available | Not Available |
| diethylenetriamine | Not Available | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit | |
|--|---|----------------------------------|--|
| linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer | E | ≤ 0.01 mg/m³ | |
| pentaethylenehexamine | E | ≤ 0.1 ppm | |
| tetraethylenepentamine | E | ≤ 0.1 ppm | |
| Notes: | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the | | |

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

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Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Individual protection measures, such as personal protective equipment









Eve and face protection

- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection

See Hand protection below

NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

When handling liquid-grade epoxy resins wear chemically protective gloves, boots and aprons.

The performance, based on breakthrough times ,of:

- · Ethyl Vinyl Alcohol (EVAL laminate) is generally excellent · Butyl Rubber ranges from excellent to good
- · Nitrile Butyl Rubber (NBR) from excellent to fair.
- · Neoprene from excellent to fair
- · Polyvinyl (PVC) from excellent to poor
- As defined in ASTM F-739-96 · Excellent breakthrough time > 480 min
- · Good breakthrough time > 20 min
- · Fair breakthrough time < 20 min
- · Poor glove material degradation

Gloves should be tested against each resin system prior to making a selection of the most suitable type.

Body protection

Hands/feet protection

See Other protection below

Other protection

- Overalls.
- PVC Apron. PVC protective suit may be required if exposure severe.
- Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
- For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).
- Non sparking safety or conductive footwear should be considered.

Respiratory protection

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Not Available | | | |
|--|---------------|---|---------------|--|
| Physical state | Liquid | Relative density (Water = 1) | Not Available | |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available | |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available | |
| pH (as supplied) | Not Available | Decomposition temperature (°C) | Not Available | |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available | |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available | |
| Flash point (°C) | -20 | Taste | Not Available | |

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| Evaporation rate | Not Available | Explosive properties | Not Available |
|---|-------------------|--|---------------------------|
| Flammability | HIGHLY FLAMMABLE. | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Not Available | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | <5 when mixed as intended |
| Heat of Combustion (kJ/g) | Not Available | Ignition Distance (cm) | Not Available |
| Flame Height (cm) | Not Available | Flame Duration (s) | Not Available |
| Enclosed Space Ignition Time Equivalent (s/m3) | Not Available | Enclosed Space Ignition Deflagration Density (g/m3) | Not Available |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|------------------------------------|--|
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 Toxicological information

TOXICITY

Not Available

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| Information | on | toxicological | effects |
|-------------|----|---------------|---------|
|-------------|----|---------------|---------|

| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |
|--------------|---|
| Ingestion | Animal testing showed that a single dose of bisphenol A diglycidyl ether (BADGE) given by mouth, caused an increase in immature sperm. The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. |
| Skin Contact | This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Bisphenol A diglycidyl ether (BADGE) may produce contact dermatitis characterized by redness and swelling, with weeping followed by crusting and scaling. A liquid resin with a molecular weight of 350 produced severe skin irritation when applied daily for 4 hours over 20 days. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| Eye | If applied to the eyes, this material causes severe eye damage. |
| Chronic | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Ample evidence exists that this material directly causes reduced fertility Bisphenol A diglycidyl ethers (BADGEs) produce a sensitization dermatitis (skin inflammation) characterized by eczema with blisters and papules, with considerable itching of the back of the hand. This may persist for 10-14 days after withdrawal from exposure and recur immediately on re-exposure. The dermatitis may last longer following each exposure, but is unlikely to become more intense. For some reactive diluents, prolonged or repeated skin contact may result in absorption of potentially harmful amounts or allergic skin reactions. Exposure to some reactive diluents (notably, neopentylglycol diglycidyl ether, CAS RN: 17557-23-2) has caused cancer in some animal testing. Glycidyl ethers can cause genetic damage and cancer. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. |

IRRITATION

Not Available

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| linseed oil/ BADGE/ formaldehyde/ | TOXICITY IRRITATION | | RITATION | | |
|--------------------------------------|---|---------------------------|---------------------------|---|--|
| diethylenetriamine polymer | Not Available Not Available | | ot Available | | |
| | | | | | |
| nontaethylenehovemine | TOXICITY | | | IRRITATION | |
| pentaethylenehexamine | Oral (Rat) LD50: 1600 mg/kg ^[2] | | | Not Available | |
| | | | | | |
| | TOXICITY | IRI | RITATION | | |
| | Dermal (rabbit) LD50: 660 mg/kg ^[2] | Ey | ve (rabbit): 100 mg/24h | moderate | |
| tetraethylenepentamine | Oral (Rat) LD50: 3990 mg/kg ^[2] | Ey | ve (rabbit): 5 mg moder | rate | |
| | | Ski | kin (rabbit): 495 mg SE | VERE | |
| | | Ski | kin (rabbit): 5 mg/24h S | EVERE | |
| | - | | | | |
| | TOXICITY | IRRITAT | TON | | |
| | Dermal (rabbit) LD50: 1090 mg/kg ^[2] | Eye: adv | verse effect observed (i | irritating) ^[1] | |
| diethylenetriamine | Oral (Rat) LD50: 1080 mg/kg ^[2] | Skin (rab | obit): 10 mg/24h - SEV | ERE | |
| | | Skin (rab | obit):500 mg open mod | erate | |
| | | Skin: adv | verse effect observed (| (corrosive) ^[1] | |
| | | | | | |
| Legend: | Value obtained from Europe ECHA Registered Subs specified data extracted from RTECS - Register of Toxi | | | n manufacturer's SDS. Unless otherwise | |
| | , | | | | |
| Vapor Prime Primer A | Oxiranes (including glycidyl ethers and alkyl oxides, and such oxirane is ethyloxirane; data presented here may | | | stics with respect to animal toxicology. One | |
| | No significant acute toxicological data identified in litera | | | | |
| LINSEED OIL/ BADGE/ | Bisphenol A diglycidyl ethers (BADGEs) produce a sen- papules, with considerable itching of the back of the ha | | | | |
| FORMALDEHYDE/ DIETHYLENETRIAMINE | on re-exposure. The dermatitis may last longer following | ng each exposure, but | is unlikely to become r | more intense. | |
| POLYMER | Bisphenol A may have effects similar to female sex normones and when administered to prednant women, may damage the foeths, it may also | | | | |
| | Glycidyl ethers can cause genetic damage and cancer. | | | | |
| | The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. | | | | |
| | The material may produce respiratory tract irritation, an The material may cause skin irritation after prolonged o | - | | | |
| | vesicles, scaling and thickening of the skin. | | and may produce on o | Silade Gran Todalogo, Gwolling, the production of | |
| | Overexposure to most of these materials may cause ad Many amine-based compounds can cause release of hi | nistamines, which, in tu | urn, can trigger allergic | and other physiological effects, including | |
| PENTAETHYLENEHEXAMINE | constriction of the bronchi or asthma and inflammation anxiety, a decrease in blood pressure, rapid heartbeat, | | | | |
| PENTACTITICENCITEARMINE | transient. | | , | | |
| | There are generally four routes of possible or potential Inhalation: Inhaling vapours may result in moderate to s | | | , | |
| | concentrations of certain amines can produce severe re breathing and chest pain. | espiratory irritation, ch | naracterized by dischar | ge from the nose, coughing, difficulty in | |
| | Pentaethylenehexamine has not been evaluated in mar | | , , | , | |
| | related polyamines show that they do not produce tumours. Pentaethylenehexamine causes increased secretion of certain metals, including copper and cadmium, in rats. | | | | |
| | The material may produce moderate eye irritation leading | ing to inflammation. Re | epeated or prolonged | exposure to irritants may produce | |
| | conjunctivitis. Triethylenetetramine is a severe irritant to skin and eye. | es and may induce skir | n sensitisation. Acute e | exposure to saturated vapour via inhalation | |
| tetraethylenepentamine | was tolerated without impairment but exposure to aeros done on experimental animals showed that it does not of | | | | |
| | Tetraethylenepentamine (TEPA) has a low acute toxicity | ty when taken orally ar | nd a higher toxicity via | the dermal route most likely due to the | |
| | corrosive nature of TEPA to the skin against neutralization by stomach acid. TEPA may be corrosive to the skin and eyes. Long term dermal application may cause thickening of the epidermis and other skin changes. | | | | |
| | Allergic reactions involving the respiratory tract are usual | | s between IgE antibod | ies and allergens and occur rapidly. Allergic | |
| | potential of the allergen and period of exposure often do others, and exposure to other irritants may aggravate s | • | of symptoms. Some pe | eople may be genetically more prone than | |
| DIETHYLENETRIAMINE | Attention should be paid to atopic diathesis, characteris | sed by increased susc | | | |
| | Exogenous allergic alveolitis is induced essentially by a lymphocytes) may be involved. Such allergy is of the de | • , | | • • • • | |
| | The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. | | | | |
| Vapor Prime Primer A & | F.12220 001/janoa.1100 | | | | |
| LINSEED OIL/ BADGE/ FORMALDEHYDE/ | | | | | |
| DIETHYLENETRIAMINE | The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact | | | | |
| POLYMER & PENTAETHYLENEHEXAMINE | eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. | | | | |

& tetraethylenepentamine & DIETHYLENETRIAMINE

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Vapor Prime Primer A & LINSEED OIL/ BADGE/ FORMALDEHYDE/ DIETHYLENETRIAMINE POLYMER

Animal testing over 13 weeks showed bisphenol A diglycidyl ether (BADGE) caused mild to moderate, chronic, inflammation of the skin.

Reproductive and Developmental Toxicity: Animal testing showed BADGE given over several months caused reduction in body weight but had no reproductive effects.

Cancer-causing potential: It has been concluded that bisphenol A diglycidyl ether cannot be classified with respect to its cancer-causing potential in humans.

Genetic toxicity: Laboratory tests on genetic toxicity of BADGE have so far been negative.

Immunotoxicity: Animal testing suggests regular injections of diluted BADGE may result in sensitization.

Consumer exposure: Comsumer exposure to BADGE is almost exclusively from migration of BADGE from can coatings into food.

PENTAETHYLENEHEXAMINE & tetraethylenepentamine & DIETHYLENETRIAMINE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant.

Ethyleneamines are very reactive and can cause chemical burns, skin rashes and asthma-like symptoms. It is readily absorbed through the skin and may cause eye blindness and irreparable damage. As such, they require careful handling. For alkyl polyamines:

The alkyl polyamines cluster consists of two terminal primary and at least one secondary amine groups and are derivatives of low molecular weight ethylenediamine, propylenediamine or hexanediamine. Toxicity depends on route of exposure. Cluster members have been shown to cause skin irritation or sensitisation, eye irritation and genetic defects, but have not been shown to cause cancer.

tetraethylenepentamine & DIETHYLENETRIAMINE

The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration.

| Acute Toxicity | X | Carcinogenicity | X |
|-----------------------------------|----------|--------------------------|---|
| Skin Irritation/Corrosion | → | Reproductivity | X |
| Serious Eye Damage/Irritation | → | STOT - Single Exposure | X |
| Respiratory or Skin sensitisation | ✓ | STOT - Repeated Exposure | × |
| Mutagenicity | × | Aspiration Hazard | × |

Legend:

X - Data either not available or does not fill the criteria for classification

Data available to make classification

SECTION 12 Ecological information

| | :~ | :4., | |
|---------|----|------|--|
| IOX | IC | ıιy | |

| Vapor Prime Primer A | Endpoint | Endpoint Test Duration (hr) Species Value | | Sour | ce | |
|--------------------------------------|---------------|---|----------------------------|---------------|---------------|----------|
| Vapor Frime Frimer A | Not Available | Not Available | Not Available | Not Available | Not Available | |
| | | | | | | |
| linseed oil/ BADGE/ formaldehyde/ | Endpoint | Test Duration (hr) | Species | Value | Sour | ce |
| iethylenetriamine polymer | Not Available | Not Available | Not Available | Not Available | Not A | vailable |
| | Endpoint | Test Duration (hr) | Species | Value | Sour | ce |
| pentaethylenehexamine | Not Available | Not Available | Not Available | Not Available | Not A | vailable |
| | Endpoint | Test Duration (hr) | Species | | Value | Source |
| | EC50 | 72h | Algae or other aquatic pla | ante | 2.1mg/l | 1 |
| tetraethylenepentamine | | 48h | Crustacea | | - | |
| | EC50 | - | | | 24.1mg/l | 1 |
| | NOEC(ECx) | 72h | Algae or other aquatic pla | ants | 0.5mg/l | 1 |
| | Endpoint | Test Duration (hr) | Species | | Value | Source |
| | BCF | 1008h | Fish | | <0.3-1.7 | 7 |
| | EC50 | 72h | Algae or other aquatic pla | ints | 1164mg/l | 1 |
| | NOEC(ECx) | 504h | Crustacea | | 5.6mg/l | 1 |
| diethylenetriamine | EC50 | 48h | Crustacea | | 16mg/l | 1 |
| | ErC50 | 72h | Algae or other aquatic pla | ints | 1164mg/l | 1 |
| | LC50 | 96h | Fish | | 175mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic pla | ints | 345.6mg/l | 1 |

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Bioconcentration Data 8. Vendor Data

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan)

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Significant environmental findings are limited. Oxiranes (including glycidyl ethers and alkyl oxides, and epoxides) exhibit common characteristics with respect to environmental fate and ecotoxicology. One such oxirane is ethyloxirane and data presented here may be taken as representative.

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For 1,2-Butylene oxide (Ethyloxirane):

log Kow values of 0.68 and 0.86. BAF and BCF: 1 to 17 L./kg.

Aquatic Fate - Ethyloxirane is highly soluble in water and has a very low soil-adsorption coefficient, which suggests that, if released to water, adsorption of ethyloxirane to sediment and suspended solids is not expected.

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------------------|-------------------------|------------------|
| pentaethylenehexamine | LOW | LOW |
| tetraethylenepentamine | LOW | LOW |
| diethylenetriamine | LOW | LOW |

Bioaccumulative potential

| Ingredient | Bioaccumulation | | |
|------------------------|------------------------|--|--|
| pentaethylenehexamine | LOW (LogKOW = -3.6744) | | |
| tetraethylenepentamine | LOW (LogKOW = -3.1604) | | |
| diethylenetriamine | LOW (BCF = 1.7) | | |

Mobility in soil

| Ingredient | Mobility | | |
|------------------------|-----------------------|--|--|
| pentaethylenehexamine | LOW (Log KOC = 3887) | | |
| tetraethylenepentamine | LOW (Log KOC = 1098) | | |
| diethylenetriamine | LOW (Log KOC = 87.53) | | |

SECTION 13 Disposal considerations

Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible

Otherwise:

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

Product / Packaging disposal

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).

SECTION 14 Transport information

Labels Required



Marine Pollutant

NO

Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

| 14.1. UN number or ID number | 1866 | 1866 | | |
|----------------------------------|----------------------------|------------------|--|--|
| 14.2. UN proper shipping name | Resin Solution, flammable | | | |
| 14.3. Transport hazard class(es) | Class Subsidiary Hazard | 3 Not Applicable | | |
| 14.4. Packing group | | | | |
| 14.5. Environmental hazard | Not Applicable | | | |

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| 14.6. Special precautions for | Hazard Label | 3 |
|-------------------------------|--------------------|-----------------------|
| user | Special provisions | B1, B52, IB3, T2, TP1 |

| Air transport (ICAO-IATA / DGF | R) | | | |
|------------------------------------|---|----------------|-------|--|
| 14.1. UN number | 1866 | | | |
| 14.2. UN proper shipping name | Resin solution flammable | | | |
| | ICAO/IATA Class | 3 | | |
| 14.3. Transport hazard class(es) | ICAO / IATA Subsidiary Hazard | Not Applicable | | |
| 01455(05) | ERG Code | 3L | | |
| 14.4. Packing group | Ш | | | |
| 14.5. Environmental hazard | Not Applicable | | | |
| | Special provisions | | A3 | |
| | Cargo Only Packing Instructions | 366 | | |
| | Cargo Only Maximum Qty / Pack | | 220 L | |
| 14.6. Special precautions for user | Passenger and Cargo Packing Instructions | | 355 | |
| usei | Passenger and Cargo Maximum Qty / Pack | | 60 L | |
| | Passenger and Cargo Limited Quantity Packing Instructions | | Y344 | |
| | Passenger and Cargo Limited Maximum Qty / Pack | | 10 L | |

Sea transport (IMDG-Code / GGVSee)

| 14.1. UN number | 1866 | | |
|------------------------------------|--|--|--|
| 14.2. UN proper shipping name | RESIN SOLUTION flammable | | |
| 14.3. Transport hazard class(es) | IMDG Class 3 IMDG Subsidiary Hazard Not Applicable | | |
| 14.4. Packing group | III | | |
| 14.5 Environmental hazard | Not Applicable | | |
| 14.6. Special precautions for user | EMS Number F-E , S-E Special provisions 223 955 Limited Quantities 5 L | | |

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group |
|--|---------------|
| linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer | Not Available |
| pentaethylenehexamine | Not Available |
| tetraethylenepentamine | Not Available |
| diethylenetriamine | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|--|---------------|
| linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer | Not Available |
| pentaethylenehexamine | Not Available |
| tetraethylenepentamine | Not Available |
| diethylenetriamine | Not Available |

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

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linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

pentaethylenehexamine is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

tetraethylenepentamine is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US AIHA Workplace Environmental Exposure Levels (WEELs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL)

diethylenetriamine is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

| Flammable (Gases, Aerosols, Liquids, or Solids) | Yes |
|--|-----|
| Gas under pressure | No |
| Explosive | No |
| Self-heating | No |
| Pyrophoric (Liquid or Solid) | No |
| Pyrophoric Gas | No |
| Corrosive to metal | No |
| Oxidizer (Liquid, Solid or Gas) | No |
| Organic Peroxide | No |
| Self-reactive | No |
| In contact with water emits flammable gas | No |
| Combustible Dust | No |
| Carcinogenicity | No |
| Acute toxicity (any route of exposure) | No |
| Reproductive toxicity | No |
| Skin Corrosion or Irritation | Yes |
| Respiratory or Skin Sensitization | Yes |
| Serious eye damage or eye irritation | Yes |
| Specific target organ toxicity (single or repeated exposure) | No |
| Aspiration Hazard | No |
| Germ cell mutagenicity | No |
| Simple Asphyxiant | No |
| Hazards Not Otherwise Classified | No |

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

None Reported

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65

None Reported

Additional State Regulatory Information

Not Applicable

National Inventory Status

National Inventory Status

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| National Inventory | Status |
|--|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer; pentaethylenehexamine; tetraethylenepentamine; diethylenetriamine) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | No (linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer) |
| Japan - ENCS | No (linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer) |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | No (linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer; pentaethylenehexamine) |
| Vietnam - NCI | Yes |

SECTION 16 Other information

| Revision Date | 09/16/2024 |
|---------------|------------|
| Initial Date | 11/16/2019 |

No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

No (linseed oil/ BADGE/ formaldehyde/ diethylenetriamine polymer)

Yes = All CAS declared ingredients are on the inventory

CONTACT POINT

Russia - FBEPH

Legend:

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|-------------------|---|
| 2.4 | 09/16/2024 | Toxicological information - Acute Health (swallowed), Hazards identification - Classification, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (fire/explosion hazard), Firefighting measures - Fire Fighter (fire incompatibility), Composition / information on ingredients - Ingredients, Handling and storage - Storage (storage incompatibility) |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

Powered by AuthorITe, from Chemwatch.

^{**}PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES**

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Vapor Prime Primer A



Vapor Prime Primer B ICP Construction Inc.

Version No: 3.4

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **09/16/2024**Print Date: **09/16/2024**

S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

| Product name | Vapor Prime Primer B |
|-------------------------------|----------------------|
| Synonyms | Not Available |
| Other means of identification | Not Available |

Recommended use of the chemical and restrictions on use

| Relevant identified | Drimor | |
|---------------------|--------|--|
| uses | Fillie | |

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

| Registered company name | ICP Construction Inc. |
|-------------------------|--|
| Address | 150 Dascomb Road Andover, MA 01810 United States |
| Telephone | 1-866-667-5119 1-978-623-9987 |
| Fax | Not Available |
| Website | www.icpgroup.com |
| Email | sds@icpgroup.com |

Emergency phone number

| Association / Organisation | ChemTel |
|-----------------------------------|----------------|
| Emergency telephone numbers | 1-800-255-3924 |
| Other emergency telephone numbers | 1-813-248-0585 |

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond

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Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Flammable Liquids Category 3, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Hazardous to the Aquatic Environment Long-Term Hazard Category 3

Label elements

Hazard pictogram(s)





Signal word

Warning

Hazard statement(s)

| H226 | Flammable liquid and vapour. | |
|------|--|--|
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H319 | Causes serious eye irritation. | |
| H335 | May cause respiratory irritation. | |
| H412 | Harmful to aquatic life with long lasting effects. | |

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) General

| P101 | If medical advice is needed, have product container or label at hand. | |
|------|---|--|
| P102 | Keep out of reach of children. | |
| P103 | Read label before use. | |

Precautionary statement(s) Prevention

| P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P271 Use only outdoors or in a well-ventilated area. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. |
|--|
| P271 Use only outdoors or in a well-ventilated area. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. |
| P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. |
| P241 Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. |
| P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. |
| P243 Take precautionary measures against static discharge. P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. |
| P261 Avoid breathing mist/vapours/spray. P273 Avoid release to the environment. |
| P273 Avoid release to the environment. |
| |
| |
| P264 Wash all exposed external body areas thoroughly after handling. |
| P272 Contaminated work clothing must not be allowed out of the workplace. |
| P280 Wear protective gloves, protective clothing, eye protection and face protection. |

Precautionary statement(s) Response

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| P370+P378 | In case of fire: Use alcohol resistant foam or normal protein foam to extinguish. | |
|----------------|--|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
| P312 | all a POISON CENTER/doctor/physician/first aider/if you feel unwell. | |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. | |
| P337+P313 | If eye irritation persists: Get medical advice/attention. | |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. | |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. | |
| P362+P364 | Take off contaminated clothing and wash it before reuse. | |

Precautionary statement(s) Storage

| P403+P235 | Store in a well-ventilated place. Keep cool. | |
|-----------|--|--|
| P405 | Store locked up. | |
| P403+P233 | P403+P233 Store in a well-ventilated place. Keep container tightly closed. | |

Precautionary statement(s) Disposal

| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|--|
|------|--|

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|--------------|-----------|---|
| 9003-36-5* | 80-100 | phenol/ formaldehyde glycidyl ether copolymer |
| 120547-52-6* | 5-10 | (C12-13)alkylglycidyl ether |
| 2530-83-8* | 1-5 | gamma-glycidoxypropyltrimethoxysilane |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures

| Eye Contact | If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|--|
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| Ingestion | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. |

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Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Fire-fighting measures

Extinguishing media

- ▶ Foam.
- Dry chemical powder.

Special hazards arising from the substrate or mixture

| Fire | Incompatibility |
|------|-----------------|
| | |

• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Special protective equipment and precautions for fire-fighters

| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. |
|-----------------------|---|
| Fire/Explosion Hazard | Combustible. Slight fire hazard when exposed to heat or flame. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit corrosive fumes. |

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| Minor Spills | ▶ Remove all ignition sources.▶ Clean up all spills immediately. |
|--------------|---|
| Major Spills | Moderate hazard. ▶ Clear area of personnel and move upwind. |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

| Safe handling | Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. DO NOT allow clothing wet with material to stay in contact with skin |
|-------------------|---|
| Other information | Store in original containers. Keep containers securely sealed. |

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Conditions for safe storage, including any incompatibilities

Suitable container Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid reaction with oxidising agents















X — Must not be stored together

0 — May be stored together with specific preventions

May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|---------------------------------|-----------|-----------|-----------|
| gamma- | 9.3 mg/m3 | 100 mg/m3 | 230 mg/m3 |
| glycidoxypropyltrimethoxysilane | | | |

| Ingredient | Original IDLH | Revised IDLH |
|---|---------------|---------------|
| phenol/ formaldehyde glycidyl ether copolymer | Not Available | Not Available |
| (C12-13)alkylglycidyl ether | Not Available | Not Available |
| gamma- glycidoxypropyltrimethoxysilane | Not Available | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|--|--|----------------------------------|
| phenol/ formaldehyde glycidyl ether copolymer | Е | ≤ 0.1 ppm |
| (C12-13)alkylglycidyl ether | Е | ≤ 0.1 ppm |
| Notes: | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. | |

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

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| Individual protection measures, such as personal protective equipment | |
|--|---|
| Eye and face protection | ► Safety glasses with side shields. ► Chemical goggles. |
| Skin protection | See Hand protection below |
| Hands/feet protection | Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. |
| Body protection | See Other protection below |
| Other protection | ► Overalls. ► P.V.C apron. |

Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted.

 Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Appearance Not Available | | |
|--|--------------------------|---|---------------|
| Physical state | Liquid | Relative density (Water = 1) | Not Available |
| Odour | Not Available | Partition coefficient n- octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Available | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available |
| Flash point (°C) | 59 | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Flammable. | Oxidising properties | Not Available |

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| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
|--|---------------|---|---------------------------|
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Immiscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | <5 when mixed as intended |
| Heat of Combustion (kJ/g) | Not Available | Ignition Distance (cm) | Not Available |
| Flame Height (cm) | Not Available | Flame Duration (s) | Not Available |
| Enclosed Space Ignition Time Equivalent (s/m3) | Not Available | Enclosed Space Ignition Deflagration Density (g/m3) | Not Available |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|--|--|
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 Toxicological information

Information on toxicological effects

| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |
|--------------|---|
| Ingestion | Reactive diluents exhibit a range of ingestion hazards. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little change / absorption. Occasionally accumulation of the solid material within the alimentary tract may result in formation of a bezoar (concretion), producing discomfort. |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. |
| Eye | Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). |
| Chronic | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. |

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This material contains a substantial amount of polymer considered to be of low concern. These are classified under having MWs of between 1000 to 10000 with less than 25% of molecules with MWs under 1000 and less than 10% under 500; or having a molecular weight average of over 10000.

| Vapor Prime Primer B | TOXICITY | | IRRITATION | | |
|---|--|--|--------------------------------|--|--|
| | Not Available | | Not Available | | |
| | | | | | |
| phenol/ formaldehyde glycidyl | TOXICITY | | | IRRITATION | |
| ether copolymer | Oral (Rat) LD50: >5000 mg/kg ^[2] | | | Not Available | |
| | TOXICITY | | IRRITATION | | |
| | dermal (rat) LD50: 2000 mg/kg * ^[2] | | Eye (rabbit): mild * * [Ciba] | | |
| | Oral (Rat) LD50: >10000 mg/kg *[2] | | Skin (g-pig): sensitiser * | | |
| (C12-13)alkylglycidyl ether | Oral (Rat) LD50: 10000 mg/kg * ^[2] | | Skin (human): Irritant * | | |
| | Oral (Rat) LD50: 17000 mg/kg ^[2] | | Skin (human): non- sensitiser* | | |
| | | | Skin (rabbit): moderate * | | |
| | | | | | |
| | TOXICITY | IRRITATION | | | |
| gamma- glycidoxypropyltrimethoxysilane | Dermal (rabbit) LD50: 3970 ul/kg ^[2] | Eye: adverse effect observed (irreversible damage) | | | |
| | Inhalation (Rat) LC50: >5300 mg/m3/4h ^[2] | Skin: no adverse effect observed (not irritating | | observed (not irritating) ^[1] | |
| | Oral (Rat) LD50: 22600 uL/kg ^[2] | | | | |
| | Oral (Rat) LD50: 7010 mg/kg ^[2] | | | | |
| | | | | | |

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

| phenol/ formaldehyde glycidyl ether copolymer | The chemical structure of hydroxylated diphenylalkanes or bisphenols consists of two phenolic rings joined together through a bridging carbon. This class of endocrine disruptors that mimic oestrogens is widely used in industry, particularly in plastics. Bisphenol A (BPA) and some related compounds exhibit oestrogenic activity in human breast cancer cell line MCF-7, but there were remarkable differences in activity. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. |
|--|---|
| (C12-13)alkylglycidyl ether | for (C12-14)alkylglycidyl ether: |
| gamma- glycidoxypropyltrimethoxysilane | Low molecular weight alkoxysilane can cause irreversible lung damage when inhaled at low dose. It is not an obvious skin irritant. For gamma-glycidopropyltrimehoxysilane (GPTMS): GPTMS undergoes rapid hydrolysis and the observed toxicity is expected to be due primarily to methanol and silanetriols. GPTMS is mildly irritating to the skin and eyes and is not a known skin sensitiser in humans or in animals. Oxiranes (including glycidyl ethers and alkyl oxides, and epoxides) share many common characteristics with respect to animal toxicology. One such oxirane is ethyloxirane; data presented here may be taken as representative. For 1,2-butylene oxide (ethyloxirane): In animal testing, ethyloxirane increased the incidence of tumours of the airways in animals exposed via inhalation. However, tumours were not observed in mice chronically exposed via skin. |

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| Vapor Prime Primer B & formaldehyde glycio copolymer 13)alkylglycio | dyl ether & (C12- | product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or | | |
|--|----------------------|--|-----------------------------|---|
| Acute Toxicity | × | | Carcinogenicity | × |
| Skin Irritation/Corrosion | * | | Reproductivity | × |
| Serious Eye Damage/Irritation | ~ | | STOT - Single Exposure | ~ |
| Respiratory or Skin sensitisation | ~ | | STOT - Repeated Exposure | × |
| Mutagenicity | × | | Aspiration Hazard | × |

Legend: X − Data either not available or does not fill the criteria for classification ✓ − Data available to make classification

SECTION 12 Ecological information

Toxicity

| Vanar Brima Brimar B | Endpoint | Test Duration (hr) | | Species | Value | | Source | |
|--|------------------------|----------------------------------|--|-------------------------------|----------------------|-------------------|------------------------|--|
| Vapor Prime Primer B | Not Available | Not Available | | Not Available Not Available | | ole Not Available | | |
| phenol/ formaldehyde glycidyl ether copolymer | Endpoint Not Available | Test Duration (hr) Not Available | | Species Not Available | Value Not Availal | | ource lot Available | |
| (C12-13)alkylglycidyl ether | Endpoint Not Available | Test Duration (hr) Not Available | Species Value Not Available Not Available | | Source Not Available | | | |
| | TVOCTAVAIIABIO | Hot/Wallable | | Notificaliable | 140t7 (Valla) | | ot / Wallabio | |
| | Endpoint | Test Duration (hr) | Sp | Species | | Value | Source | |
| | LC50 | 96h | Fis | Fish | | 4.9mg/ | 1 2 | |
| gamma- | EC50 | 72h | Alg | Algae or other aquatic plants | | >420m | ıg/l 2 | |
| glycidoxypropyltrimethoxysilane | EC50 | 48h | Cru | Crustacea | | 473mg | /l 2 | |
| | NOEC(ECx) | 96h | Fis | Fish | | 1.5mg/ | 1 2 | |
| | EC50 | 96h | Alo | Algae or other aquatic plants | | 250mg | ı/I 2 | |

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For high molecular weight synthetic polymers: (according to the Sustainable Futures (SF) program (U.S. EPA 2005b; U.S. EPA 2012c) polymer assessment guidance.)

High MW polymers are expected:

- \cdot to have low vapour pressure and are not expected to undergo volatilization .
- \cdot to adsorb strongly to soil and sediment
- \cdot to be non-biodegradable (not anticipated to be assimilated by microorganisms.- therefore, biodegradation is not expected to be an important removal process. However many exceptions exist

High MW polymers are not expected to undergo removal by other degradative processes under environmental conditions

Persistence and degradability

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| Ingredient | Persistence: Water/Soil | Persistence: Air |
|---|-------------------------|------------------|
| gamma- glycidoxypropyltrimethoxysilane | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|---|------------------------|
| gamma- glycidoxypropyltrimethoxysilane | LOW (LogKOW = -0.9152) |

Mobility in soil

| Ingredient | Mobility |
|---|-----------------------|
| gamma- glycidoxypropyltrimethoxysilane | LOW (Log KOC = 90.22) |

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.

SECTION 14 Transport information

Labels Required

| Marine Pollutant | NO |
|------------------|----|

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group |
|--|---------------|
| phenol/ formaldehyde glycidyl ether copolymer | Not Available |
| (C12-13)alkylglycidyl ether | Not Available |
| gamma- glycidoxypropyltrimethoxysilane | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

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| Product name | Ship Type |
|---|---------------|
| phenol/ formaldehyde glycidyl ether copolymer | Not Available |
| (C12-13)alkylglycidyl ether | Not Available |
| gamma- glycidoxypropyltrimethoxysilane | Not Available |

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

phenol/ formaldehyde glycidyl ether copolymer is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

(C12-13)alkylglycidyl ether is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Section 4/12 (b) - Sunset Dates/Status

gamma-glycidoxypropyltrimethoxysilane is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Substance Registry Services (SRS) - 2020 CDR TSCA 4 TR

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

| Flammable (Gases, Aerosols, Liquids, or Solids) | |
|--|-----|
| Gas under pressure | No |
| Explosive | No |
| Self-heating | No |
| Pyrophoric (Liquid or Solid) | No |
| Pyrophoric Gas | No |
| Corrosive to metal | No |
| Oxidizer (Liquid, Solid or Gas) | No |
| Organic Peroxide | No |
| Self-reactive | No |
| In contact with water emits flammable gas | No |
| Combustible Dust | No |
| Carcinogenicity | No |
| Acute toxicity (any route of exposure) | No |
| Reproductive toxicity | No |
| Skin Corrosion or Irritation | Yes |
| Respiratory or Skin Sensitization | Yes |
| Serious eye damage or eye irritation | Yes |
| Specific target organ toxicity (single or repeated exposure) | No |

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| Aspiration Hazard | No |
|----------------------------------|----|
| Germ cell mutagenicity | No |
| Simple Asphyxiant | No |
| Hazards Not Otherwise Classified | No |

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

None Reported

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

None Reported

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65

None Reported

Additional State Regulatory Information

Not Applicable

National Inventory Status

| National Inventory | Status | | |
|---|---|--|--|
| Australia - AIIC / Australia Non-Industrial Use | No ((C12-13)alkylglycidyl ether) | | |
| Canada - DSL | Yes | | |
| Canada - NDSL | No (phenol/ formaldehyde glycidyl ether copolymer; (C12-13)alkylglycidyl ether; gamma-glycidoxypropyltrimethoxysilane) | | |
| China - IECSC | Yes | | |
| Europe - EINEC / ELINCS / NLP | No ((C12-13)alkylglycidyl ether) | | |
| Japan - ENCS | Yes | | |
| Korea - KECI | Yes | | |
| New Zealand - NZIoC | Yes | | |
| Philippines - PICCS | No ((C12-13)alkylglycidyl ether) | | |
| USA - TSCA | Yes | | |
| Taiwan - TCSI | Yes | | |
| Mexico - INSQ | No ((C12-13)alkylglycidyl ether; gamma-glycidoxypropyltrimethoxysilane) | | |
| Vietnam - NCI | Yes | | |
| Russia - FBEPH | No ((C12-13)alkylglycidyl ether) | | |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt will require registration. | | |

SECTION 16 Other information

| Revision Date | 09/16/2024 |
|---------------|------------|
| Initial Date | 08/24/2023 |

CONTACT POINT

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PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|-------------------|---|
| 2.4 | 09/16/2024 | Hazards identification - Classification, Composition / information on ingredients - Ingredients |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection
- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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