Bisley International LLC

Chemwatch: 24770 Version No: 7.1.14.11

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

Chemwatch Hazard Alert Code: 2

Issue Date: 19/06/2017 Print Date: 17/09/2021 S.GHS.USA.EN

SECTION 1 Identification

| Product Identifier | |
|-------------------------------|----------------------|
| Product name | PPG 2000 |
| Chemical Name | polypropylene glycol |
| Chemical formula | (C3H6O)nH2O |
| Other means of identification | Not Available |
| CAS number | 25322-69-4 |

Recommended use of the chemical and restrictions on use

| Relevant identified uses | Hydraulic fluids, rubber lubricants, antifoam agents, intermediates in urethane foams, adhesives, coatings, elastomers, plasticizers, paint |
|--------------------------|---|
| Relevant Identified uses | formulations, lab reagent, solvent for vegetable oils, waxes and resins. |

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

| Registered company name | Bisley International LLC | | |
|-------------------------|--|--|--|
| Address | 1790 Hughes Landing Boulevard Suite 400 The Woodlands TX 77380 United States | | |
| Telephone | +1 (844) 424 7539 | | |
| Fax | Not Available | | |
| Website | www.bisley.biz | | |
| Email | compliance@bisley.biz | | |

Emergency phone number

| Association / Organisation | Bisley International LLC | CHEMWATCH EMERGENCY RESPONSE |
|-----------------------------------|--------------------------|------------------------------|
| Emergency telephone numbers | +1 855 237 5573 | +61 2 9186 1132 |
| Other emergency telephone numbers | +61 2 9186 1132 | +1 855-237-5573 |

Once connected and if the message is not in your prefered language then please dial 01

Una vez conectado y si el mensaje no está en su idioma preferido, por favor marque 02

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

Considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as Dangerous Goods for transport purposes.

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section $\ensuremath{\mathsf{2}}$ 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 Serious Eye Damage/Eye Irritation Category 2B Label elements

| Hazard pictogram(s) | Not Applicable |
|---------------------|----------------|
| Signal word | Warning |

| Hazard statement(s) | |
|---------------------|------------------------|
| H320 | Causes eye irritation. |

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Not Applicable

Precautionary statement(s) Prevention

P264 Wash all exposed external body areas thoroughly after handling.

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. | |
| P337+P313 | If eye irritation persists: Get medical advice/attention. | |

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

| CAS No | %[weight] | Name |
|------------|-----------|----------------------|
| 25322-69-4 | 100 | polypropylene glycol |

Mixtures

See section above for composition of Substances

SECTION 4 First-aid measures

Description of first aid measures

| Eye Contact | If this product comes in contact with the eyes: Wash out immediately with fresh 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. Seek medical attention without delay; if pain persists or recurs 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 | If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. |

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

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for stimulants:

Treatment and Management.

A specific antidote does not exist for acute stimulant intoxication. Activated charcoal should be prescribed in a case of acute overdose. Otherwise the treatment should target specific signs and symptoms such as hypertension, agitation, seizures, and hyperthermia. Rapid supportive treatment may reduce mortality

Acute intoxication usually presents with increased sensitivity to sensorial stimuli and paranoia. As such, decreasing the patient's level of stimulation (keep voice low, dim lights, minimise touch) and working with the patient's paranoid state (reduce eye contact, respect personal space, do not approach from behind) is important

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination)

Decontamination with gastric lavage may be appropriate in cases of recent ingestion.

Monitor vital signs and hydrate with intravenous fluids.

Withdrawal related insomnia may be treated with trazodone (75-200 mg), hydroxyzine (25-50 mg), or diphenhydramine (50-100 mg) at bedtime.

Benzodiazepines should be avoided unless the patient is also in detox from alcohol/benzodiazepines/opiates.

Neuroleptics may be used for the symptomatic treatment of psychosis

Physical restraints may be required in certain cases.

Common withdrawal symptoms may include dysphoria, anxiety, and irritability, decreased energy (manifested as reported fatigue, psychomotor retardation and hypersomnia), hyperphagia, decreased concentration, and paranoia. The withdrawal symptoms are uncomfortable but not life threatening; consequently, no current recommendations for a stimulantdetoxification regimen are available.

Stimulant withdrawal dysphoria is common and does not in itself represent an indication for an antidepressant. However, a thorough assessment (including consideration of an antidepressant) is recommended for persistent (longer than a week) depressive symptoms at a level of moderate or severe or associated with suicidal ideation/attempts. Medscape

Treat symptomatically.

- Polyethylene glycols are generally poorly absorbed orally and are mostly unchanged by the kidney.
- Dermal absorption can occur across damaged skin (e.g. through burns) leading to increased osmolality, anion gap metabolic acidosis, elevated calcium, low ionised calcium, CNS depression and renal failure.
- Treatment consists of supportive care

[Ellenhorn and Barceloux: Medical Toxicology

SECTION 5 Fire-fighting measures

Extinguishing media

- Water spray or fog.
- 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

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.
- Prevent, by any means available, spillage from entering drains or water course.
- ▶ Use water delivered as a fine spray to control fire and cool adjacent area.

- ▶ Slight fire hazard when exposed to heat or flame.
- ▶ Heating may cause expansion or decomposition leading to violent rupture of containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO).

Fire/Explosion Hazard

Combustion products include:

carbon dioxide (CO2)

other pyrolysis products typical of burning organic material.

May emit poisonous fumes.

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 Spill |
|-------------|
| |

- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.

Major Spills

Moderate hazard.

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

▶ DO NOT allow clothing wet with material to stay in contact with skin

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- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- Deverheating of ethoxylates/ alkoxylates in air should be avoided. When some ethoxylates are heated vigorously in the presence of air or oxygen, at temperatures exceeding 160 C, they may undergo exothermic oxidative degeneration resulting in self-heating and autoignition.
- Nitrogen blanketing will minimise the potential for ethoxylate oxidation. Prolonged storage in the presence of air or oxygen may cause product degradation.

Other information

Ethoxylates/ alkoxylates react slowly with air or oxygen and may generate potentially sensitising intermediates (haptens).. Storage under heated conditions in the presence of air or oxygen increases reaction rate. For example, after storing at 95 F/ 35 C for 30 days in the presence of air, there is measurable oxidation of the ethoxylate. Lower temperatures will allow for longer storage time and higher temperatures will shorten the storage time if stored under an air or oxygen atmosphere.

- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights or ignition sources.
- Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container

For ethoxylates suitable containers include carbon steel coated with baked phenolic.

Any moisture may cause rusting of carbon steel. If product is moisture free, uncoated carbon steel tanks may be used.

- Metal can or drum Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Storage incompatibility

- Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
- Avoid reaction with oxidising agents















- Must not be stored together
- 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

Ingredient

Emergency Limits

| polypropylene glycol | 30 mg/m3 | 330 mg/m3 | | 2,000 mg/m3 |
|----------------------|---------------|-----------|---------------|-------------|
| Ingredient | Original IDLH | ' | Revised IDLH | |
| polypropylene glycol | Not Available | | Not Available | |

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.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal protection



TEEL-1









Eye and face protection

- ▶ Safety glasses with side shields
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Skin protection

See Hand protection below

- ▶ Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber NOTE:

Hands/feet protection

- 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

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Skin cleansing cream.

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.

Personal hygiene is a key element of effective hand care.

Body protection

See Other protection below

P.V.C apron.
Barrier cream.

Respiratory protection

Type A-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 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

Colourless liquid with a sweet, faint odour. Classified by molecular weight as 425, 1025, 2025, 3025, 4025. Lower molecular weight grades are lower viscosity and soluble in water. High molecular grades are viscous.

Family of products which vary in their physical properties as a result of variations in production. Data presented here is for typical family member.

| Physical state | Liquid | Relative density (Water = 1) | 1 approx. |
|--|----------------|---|----------------|
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | 201 |
| pH (as supplied) | Not Applicable | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | -60 (typical). | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | 133 (typical). | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | 185 | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | 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) | 100 approx. |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Miscible | pH as a solution (%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | 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

Information on toxicological effects

Inhaled

Inh

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| | chest tightness, and throat spasm. Mus seizures. | be damaging to the health of the ninistration of central nervous sys- cular involvement may produce co (dihydric alcohols) are similar to | · | visible through the skin) or |
|--------------|---|--|--|--|
| Skin Contact | of some time. Repeated exposure can of Open cuts, abraded or irritated skin sho | cause contact dermatitis which is uld not be exposed to this materia example, cuts, abrasions or lesions are that any external damage is su | ons, may produce systemic injury with harn uitably protected. | tering. |
| Eye | <u> </u> | | cause eye irritation in a substantial numbeess of the conjunctiva (similar to windburn). | • |
| Chronic | convulsions with complete recovery in I doses up to half the LD50. The materia | ess than 24 hours. No central ner may therefore be readily metabo | uced tremors lasting less than 1 hour whilst yous system stimulation was observed in c lised or excreted when absorbed in repeate y to cause a sensitisation reaction in some | hronic feeding studies at ed sub-lethal doses. |
| | TOXICITY | | IRRITATION | |

| | TOXICITY | IRRITATION |
|----------------------|--|--|
| | Dermal (rabbit) LD50: >3000 mg/kg ^[1] | Eye: no adverse effect observed (not irritating) ^[1] |
| polypropylene glycol | Inhalation(Rat) LC50; >2.34 mg/l4h ^[1] | Skin (rabbit): 500 mg mild |
| | Oral(Rat) LD50; >2000 mg/kg ^[1] | Skin: no adverse effect observed (not irritating) ^[1] |
| Legend: | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise | |

 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

POLYPROPYLENE GLYCOL

** Rohm and Haas Paraplex WP-1 MSDS

Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products.

Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers. The oxidization products also cause irritation.

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 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.

| Acute Toxicity | × | 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 | X |

Legend:

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

Data available to make classification

SECTION 12 Ecological information

Toxicity

| polypropylene glycol | Endpoint | Test Duration (hr) | Species | Value | Source |
|----------------------|-----------|--------------------|-------------------------------|---------------|--------|
| | EC50 | 72h | Algae or other aquatic plants | >100mg/l | 2 |
| | EC50 | 48h | Crustacea | >100mg/l | 2 |
| | LC50 | 96h | Fish | >100mg/l | 2 |
| | NOEC(ECx) | 504h | Crustacea | >=10mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | 3000-4000mg/l | 2 |
| | | | and | | _ |

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 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

Ecotoxicity Fish LC50: 1000 mg/l Daphnia magna EC50: 4000 mg/l Anaerobic effects : no degradradataion Degradation Biological: only with synth. sewage DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|---------------------------------------|---------------------------------------|
| | No Data available for all ingredients | No Data available for all ingredients |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|------------|---------------------------------------|
| | No Data available for all ingredients |

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Mobility in soil

| Ingredient | Mobility |
|------------|---------------------------------------|
| | No Data available for all ingredients |

SECTION 13 Disposal considerations

Waste treatment methods

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.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- ▶ 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.
- ▶ Where in doubt contact the responsible authority.
- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 Transport information

Labels Required

Marine Pollutant

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

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

| Product name | Pollution Category | Ship Type |
|----------------------|--------------------|-----------|
| Polypropylene glycol | Z | 3 |

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

| Product name | Group |
|----------------------|---------------|
| polypropylene glycol | Not Available |

Transport in bulk in accordance with the ICG Code

| Transport in bulk in accordance with the ico code | | |
|---|---------------|--|
| Product name | Ship Type | |
| polypropylene glycol | Not Available | |

SECTION 15 Regulatory information

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

polypropylene glycol is found on the following regulatory lists

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)

US TSCA Chemical Substance Inventory - Interim List of Active Substances

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

| Flammable (Gases, Aerosols, Liquids, or Solids) | No |
|---|----|
| 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 |
| | |

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| 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 | No |
| Respiratory or Skin Sensitization | No |
| Serious eye damage or eye irritation | No |
| 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

State Regulations

US. California Proposition 65

None Reported

National Inventory Status

| National Inventory | Status |
|--|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (polypropylene glycol) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | Yes |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | Yes |
| Vietnam - NCI | Yes |
| Russia - FBEPH | Yes |
| 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 or will require registration. |

SECTION 16 Other information

| Revision Date | 19/06/2017 |
|---------------|------------|
| Initial Date | 27/03/2006 |

SDS Version Summary

| Version | Date of Update | Sections Updated | |
|---------|-------------------|--|--|
| 6.1.2.1 | 23/09/2009 | Advice to Doctor | |
| 7.1.2.1 | 19/06/2017 | Acute Health (skin), Acute Health (swallowed), Advice to Doctor, Chronic Health, Classification, Disposal, Handling Procedure, Personal Protection (Respirator), Personal Protection (hands/feet), Physical Properties, Spills (major), Storage (storage requirement), Storage (suitable container), Toxicity and Irritation (Other) | |
| 7.1.3.1 | 10/05/2021 | Regulation Change | |
| 7.1.4.1 | 24/05/2021 | Regulation Change | |
| 7.1.4.2 | 30/05/2021 | Template Change | |
| 7.1.4.3 | 04/06/2021 | Template Change | |
| 7.1.4.4 | 05/06/2021 | Template Change | |
| 7.1.4.5 | 09/06/2021 | Template Change | |
| 7.1.4.6 | 11/06/2021 | Template Change | |
| 7.1.4.7 | 15/06/2021 | Template Change | |
| 7.1.4.8 | 05/07/2021 | Template Change | |
| 7.1.5.8 | 14/07/2021 | Regulation Change | |

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| Version | Date of Update | Sections Updated |
|-----------|----------------|-------------------|
| 7.1.6.8 | 15/07/2021 | Regulation Change |
| 7.1.6.9 | 01/08/2021 | Template Change |
| 7.1.7.9 | 02/08/2021 | Regulation Change |
| 7.1.8.9 | 05/08/2021 | Regulation Change |
| 7.1.9.9 | 09/08/2021 | Regulation Change |
| 7.1.10.9 | 16/08/2021 | Regulation Change |
| 7.1.10.10 | 29/08/2021 | Template Change |
| 7.1.11.10 | 30/08/2021 | Regulation Change |
| 7.1.12.10 | 06/09/2021 | Regulation Change |
| 7.1.13.10 | 13/09/2021 | Regulation Change |
| 7.1.13.11 | 16/09/2021 | Template Change |
| 7.1.14.11 | 16/09/2021 | Regulation Change |

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. Scale of use, frequency of use and current or available engineering controls must be considered.

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

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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