

Riva Coat SDI (North America) Inc.

Version No: **10.1** Safety Data Sheet according to OSHA HazCom Standard (2012) requirements lssue Date: **10/03/2023** Print Date: **22/11/2023** L.GHS.USA.EN

SECTION 1 Identification

| Product Identifier | |
|-------------------------------|----------------|
| Product name | Riva Coat |
| Chemical Name | Not Applicable |
| Synonyms | Not Available |
| Chemical formula | Not Applicable |
| Other means of identification | Not Available |

Recommended use of the chemical and restrictions on use

Relevant identified uses Dental professional use: For the protection of glass-ionomer cement from dehydration.

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

| Registered company name | SDI (North America) Inc. | SDI Limited | SDI Germany GmbH |
|-------------------------|---|--|---|
| Address | 1279 Hamilton Parkway Itasca IL 60143 United States | 3-15 Brunsdon Street Bayswater VIC 3153 Australia | Hansestrasse 85 Cologne D-51149 Germany |
| Telephone | +1 630 361 9200 | +61 3 8727 7111 | +49 0 2203 9255 0 |
| Fax | Not Available | +61 3 8727 7222 | +49 0 2203 9255 200 |
| Website | www.sdi.com.au | www.sdi.com.au | www.sdi.com.au |
| Email | USA.Canada@sdi.com.au | info@sdi.com.au | germany@sdi.com.au |
| Registered company name | SDI HOLDINGS PTY LTD DO | | |
| Address | Rua Dr. Reinaldo Schmithausen 3141 – Cordeiros Itajaí – SC – CEP 88310-004 Brazil | | |
| Telephone | +55 11 3092 7100 | | |
| Fax | Not Available | | |
| Website | http://www.sdi.com.au/ | | |
| Email | Brasil@sdi.com.au | | |

Emergency phone number

| Association / Organisation | SDI Limited | CHEMWATCH EMERGENCY RESPONSE (24/7) |
|-----------------------------------|-----------------------------------|-------------------------------------|
| Emergency telephone numbers | 131126 Poisons Information Centre | +1 855-237-5573 |
| Other emergency telephone numbers | +61 3 8727 7111 | +61 3 9573 3188 |

Once connected and if the message is not in your preferred 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





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

Skin Corrosion/Irritation and Serious Eye Damage/Eye Irritation Category 2 (Skin)/2B (Eye), Sensitisation (Skin) Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3

| Hazard pictogram(s) | |
|---------------------|---------|
| Signal word | Warning |

Hazard statement(s)

| H315+H320 | Causes skin and eye irritation. |
|-----------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

| P264 | Wash all exposed external body areas thoroughly after handling. |
|------|--|
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves and protective clothing. |
| P261 | Avoid breathing mist/vapours/spray. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |

Precautionary statement(s) Response

| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
|----------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P312 | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |

Precautionary statement(s) Storage

| • • • • • • • | |
|---------------|--|
| P405 | Store locked up. |
| 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 |
|------------|-----------|-----------------------------------|
| 109-16-0 | 20-30 | triethylene glycol dimethacrylate |
| 72869-86-4 | 60-70 | diurethane dimethacrylate |

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 or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. | |

| | Transport to hospital, or doctor, without delay. |
|-----------|--|
| Ingestion | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. Seek medical attention. |

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

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

| lone known |
|------------|
| 1 |

Special protective equipment and precautions for fire-fighters

| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. |
|-----------------------|--|
| Fire/Explosion Hazard | Non combustible. Not considered a significant fire risk, however containers may burn. May emit corrosive fumes. Decomposes on heating and produces: carbon dioxide (CO2) carbon monoxide (CO) |

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures See section 8

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Environmental precautions

See section 12

Methods and material for containment and cleaning up

| Minor Spills | Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. |
|--------------|--|
| 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. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services. |

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. Use in a well-ventilated area. |

| | Avoid contact with moisture. Avoid contact with incompatible material When handling, DO NOT eat, drink or sr Keep containers securely sealed when r Avoid physical damage to containers. Always wash hands with soap and wate Work clothes should be laundered sepai Use good occupational work practice. Observe manufacturer's storage and hai Atmosphere should be regularly checked | noke. not in use. r after handling. rately. Launder contaminated ndling recommendations cor | tained within this SDS. | safe working conditions | are maintained. |
|---|--|--|--|--|---|
| Other information | Store in a dry and well ventilated-area, away Store between 10 and 25 deg. C. Store away from sources of heat or ignition / | · | | | |
| Conditions for safe storage, in | cluding any incompatibilities | | | | |
| Suitable container | DO NOT repack. Use containers supplie Check that containers are clearly labelle | | | | |
| Storage incompatibility | Avoid storage with reducing agents. Avoid strong acids, acid chlorides, acid a | anhydrides and chloroformat | es. | | |
| SECTION 8 Exposure contro | ols / personal protection | | | | |
| Control parameters Occupational Exposure Limits (C INGREDIENT DATA Not Available Emergency Limits | PEL) | | | | |
| Ingredient | TEEL-1 | TEEL-2 | | TEEL-3 | |
| triethylene glycol dimethacrylate | 33 mg/m3 | 360 mg/m3 | | 2,100 mg/m3 | |
| diurethane dimethacrylate | 120 mg/m3 | 1,300 mg/m3 | | 7,900 mg/m3 | |
| Ingredient | Original IDLH | | Revised IDLH | | |
| triethylene glycol dimethacrylate | Not Available | | Not Available | | |
| diurethane dimethacrylate | Not Available | | Not Available | | |
| - | | | | | |
| | | | | | |
| Occupational Exposure Banding | | | | | |
| Ingredient | Occupational Exposure Band Rating | | Occupational Expo | sure Band Limit | |
| | E | | Occupational Expo ≤ 0.1 ppm | sure Band Limit | |
| Ingredient triethylene glycol dimethacrylate diurethane dimethacrylate | E | | ≤ 0.1 ppm ≤ 0.1 ppm | | |
| Ingredient triethylene glycol dimethacrylate | E | posure. The output of this pr | ≤ 0.1 ppm ≤ 0.1 ppm specific categories or ba ocess is an occupationa | ands based on a chemic | |
| Ingredient triethylene glycol dimethacrylate diurethane dimethacrylate | E E Occupational exposure banding is a process adverse health outcomes associated with ex | posure. The output of this pr | ≤ 0.1 ppm ≤ 0.1 ppm specific categories or ba ocess is an occupationa | ands based on a chemic | |
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| Ingredient triethylene glycol dimethacrylate diurethane dimethacrylate Notes: MATERIAL DATA | E Cocupational exposure banding is a process adverse health outcomes associated with ex- range of exposure concentrations that are ex- big to the second second second second second The basic types of engineering controls are: Process controls which involve changing the Enclosure and/or isolation of emission sourc "adds" and "removes" air in the work environ ventilation system must match the particular Employers may need to use multiple types of General exhaust is adequate under normal of essential to obtain adequate protection. Prov- workplace possess varying "escape" velocitier remove the contaminant. | posure. The output of this pro- spected to protect worker he will typically be independent way a job activity or process e which keeps a selected ha ment. Ventilation can remov process and chemical or coi f controls to prevent employed operating conditions. If risk of ride adequate ventilation in v | ≤ 0.1 ppm ≤ 0.1 ppm specific categories or bacoess is an occupational alth. veen the worker and the of worker interactions to s is done to reduce the r zard "physically" away fi e or dilute an air contaminant in use. be overexposure. overexposure exists, with a statement of the statement overexposure exists, with a statement of the | ands based on a chemic I exposure band (OEB), hazard. Well-designed o provide this high level o isk. rom the worker and vent inant if designed proper ear SAA approved respi rage areas. Air contamin | which corresponds to a engineering controls can of protection. tilation that strategically ly. The design of a rator. Correct fit is nants generated in the quired to effectively |
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1: Room air currents minimal or favourable to capture

2: Contaminants of low toxicity or of nuisance value only

1: Disturbing room air currents

2: Contaminants of high toxicity

| | 3: Intermittent, low production. | 3: High production, heavy use |
|---|--|--|
| | 4: Large hood or large air mass in motion | 4: Small hood - local control only |
| | with the square of distance from the extraction point (in accordingly, after reference to distance from the conta 1-2 m/s (200-400 f/min.) for extraction of solvents gen | distance away from the opening of a simple extraction pipe. Velocity generally decreases n simple cases). Therefore the air speed at the extraction point should be adjusted, minating source. The air velocity at the extraction fan, for example, should be a minimum of erated in a tank 2 meters distant from the extraction point. Other mechanical the extraction apparatus, make it essential that theoretical air velocities are multiplied by talled or used. |
| Individual protection measures, such as personal protective equipment | | |
| Eye and face protection | the wearing of lenses or restrictions on use, shoul and adsorption for the class of chemicals in use a their removal and suitable equipment should be re remove contact lens as soon as practicable. Lens | tional equivalent] ontact lenses may absorb and concentrate irritants. A written policy document, describing d be created for each workplace or task. This should include a review of lens absorption nd an account of injury experience. Medical and first-aid personnel should be trained in eadily available. In the event of chemical exposure, begin eye irrigation immediately and should be removed at the first signs of eye redness or irritation - lens should be removed in ted hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. |
| Skin protection | See Hand protection below | |
| Hands/feet protection | Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Ru Rubber Gloves | bber |
| Body protection | See Other protection below | |
| Other protection | Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eve wash unit. | |

Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Required minimum protection factor | Maximum gas/vapour concentration present in air p.p.m. (by volume) | Half-face Respirator | Full-Face Respirator |
|------------------------------------|--|----------------------|----------------------|
| up to 10 | 1000 | A-AUS / Class1 | - |
| up to 50 | 1000 | - | A-AUS / Class 1 |
| up to 50 | 5000 | Airline * | - |
| up to 100 | 5000 | - | A-2 |
| up to 100 | 10000 | - | A-3 |
| 100+ | | | Airline** |

 * - Continuous Flow ** - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Clear, pale yellow slightly viscous liquid with ester-like odd | our, does not mix with water. | |
|---|--|---|----------------|
| Physical state | Liquid | Relative density (Water = 1) | 1.15 |
| 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) | Gel before boiling | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | 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 | Immiscible | pH as a solution (1%) | 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 | Limited evidence exists, or practical experience predicts, that the materi individuals following inhalation. | ial produces irritation of the respiratory system in a significant number of |
|--------------------------------------|--|---|
| Ingestion | The material has NOT been classified by EC Directives or other classific corroborating animal or human evidence. The material may still be dam pre-existing organ (e.g liver, kidney) damage is evident. Present definitie producing mortality rather than those producing morbidity (disease, ill-hu vomiting. In an occupational setting however, ingestion of insignificant q | aging to the health of the individual, following ingestion, especially where ons of harmful or toxic substances are generally based on doses ealth). Gastrointestinal tract discomfort may produce nausea and |
| Skin Contact | Limited evidence exists, or practical experience predicts, that the materi individuals following direct contact, and/or produces significant inflamma hours, such inflammation being present twenty-four hours or more after prolonged or repeated exposure; this may result in a form of contact der redness (erythema) and swelling (oedema) which may progress to bliste microscopic level there may be intercellular oedema of the spongy layer | ation when applied to the healthy intact skin of animals, for up to four the end of the exposure period. Skin irritation may also be present after rmatitis (nonallergic). The dermatitis is often characterised by skin ering (vesiculation), scaling and thickening of the epidermis. At the |
| Eye | is expected to produce significant ocular lesions which are present twen | haracterised by temporary redness (similar to windburn) of the conjunctive |
| Chronic | the substance, sometimes even to tiny quantities, may cause respirator asthma. Not all workers who are exposed to a sensitiser will become hy become hyper-responsive. | mals. agens and respiratory sensitisers) can induce a state of specific airway . Once the airways have become hyper-responsive, further exposure to y symptoms. These symptoms can range in severity from a runny nose to per-responsive and it is impossible to identify in advance who are likely to ed from substances which may trigger the symptoms of asthma in people are not classified as asthmagens or respiratory sensitisers cuase occupational asthma should be prevented. Where this is not event workers from becoming hyper-responsive. articular attention when risk management is being considered. Health to be to a substance which may cause occupational asthma and there |
| Riva Coat | тохісіту | IRRITATION |
| | Not Available | Not Available |
| | ΤΟΧΙΟΙΤΥ | IRRITATION |
| triethylene glycol dimethacrylate | dermal (mouse) LD50: >2000 mg/kg ^[1] | Eye: no adverse effect observed (not irritating) ^[1] |
| | Oral (Mouse) LD50; 10750 mg/kg ^[2] | Skin: no adverse effect observed (not irritating) ^[1] |

 Image: bit in the second system
 TOXICITY
 IRRITATION

 dermal (rat) LD50: >2000 mg/kg^[1]
 Eye: no adverse effect observed (not irritating)^[1]

 Oral (Rat) LD50: >2000 mg/kg^[2]
 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 specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

* Possible carcinogen; possible sensitizer; possible irreversible effects * Polysciences MSDS The skin sensitising potential of the test substance was investigated in a Local Lymph Node Assay (LLNA) in mice according to OECD Guideline 429 and in compliance with GLP (Vogel, 2009). The highest technically achievable test substance concentration was 50% (w/w) in dimethylformamide. To determine the highest non-irritant test concentration, a pre-test was performed in two animals. Two mice were treated with concentrations of 25 and 50% each on three consecutive days. No signs of irritation or systemic toxicity were observed at the tested concentrations. In the main study, four female CBA/CaOlaHsd mice per test group were treated with the test substance at concentrations of 10, 25 and 50% (w/w) in dimethylformamide or with vehicle alone for three consecutive days by open application on the ears (25 µL/ear). Three days after the last exposure, all animals were injected with 3H-methyl

thymidine and approximately after five hours the draining (auricular) lymph nodes were excised and pooled for each test group. After precipitating the DNA of the lymph node cells, radioactivity measurements were performed. Treatment with test substance concentrations of 10, 25 and 50% (w/w) in dimethylformamide resulted in DPM values per lymph node of 1266.3, 1363.5 and 3562.1, respectively. The SI values calculated for the substance concentrations 10, 25 and 50% were 1.58, 1.70 and 4.44, respectively. The EC3 value was calculated to be 36.9%. Based on the results, the test substance was regarded as a skin sensitizer under the conditions of the test. Repeat Dose Toxicity: NOAEL = 100 mg/kg bw/day for males NOAEL = 300 mg/kg bw/day for females The lowest observed adverse effect level (LOAEL) in male animals is 300 mg/kg bw/day. According to Annex I of Regulation (EC) No 1272/2008 classification as STOT RE Category 2 is applicable, when significant toxic effects observed in a 90-day repeated-dose study conducted in experimental animals are seen to occur within the guidance value ranges of 10 < C = 100 mg/kg bw/day. These guidance values can be used as a basis to extrapolate equivalent guidance values for toxicity studies of greater or lesser duration, using dose/exposure time extrapolation similar to Habers rule for inhalation, which states essentially that the effective dose is directly proportional to the exposure concentration and the duration of exposure. The assessment shall be done on a case-by- case basis; for a 28-day study the guidance value is increased by a factor of three. The available repeated dose toxicity study was conducted in combination with the reproductive/developmental toxicity screening test. Male animals were exposed to the test substance for 56 days. Thus, the guidance value is increased by a factor of 1.6 leading to a guidance value range of 16 < C = 160 mg/kg bw/day for a classification as STOT RE Category 2. The LOAEL of 300 mg/kg/bw/day in the present study is above the guidance value for a classification with regard to repeated exposure. Thus, the available data on oral repeated dose toxicity do not meet the criteria for classification according to Regulation (EC) No 1272/2008, and is therefore conclusive but not sufficient for classification. Genetic toxicity: The available data on genetic toxicity are not sufficient for classification according to Regulation (EC) No 1272/2008. Gene mutation in bacteria A bacterial gene mutation assay with the test substance was performed in accordance with OECD Guideline 471 and in compliance with GLP (Paulus, 2009). In two independent experiments, the Salmonella typhimurium strains TA 97a, TA 98, TA 100, TA 102 and TA 1535 were exposed to the test substance dissolved in DMSO using either the preincubation or the plate incorporation method. Test substance concentrations of 50, 150, 500, 1501 and 5004 µg/plate were selected for the plate incorporation test with and without metabolic activation. In the second experiment, 312, 624, 1247, 2493 and 4986 µg/plate were selected for the preincubation method with and without metabolic activation. No signs of cytotoxicity were observed up to and including the limit concentration. Up to 5000 µg/plate, the test substance did not induce an increase in the mutation frequency of the tester strains in the presence and absence of a metabolic activation system. The determined vehicle values for the spontaneous revertants of the controls and all positive control values were within the range of historical data. Under the conditions of this experiment, the test substance did not show mutagenicity in the selected S. typhimurium strains in the presence and absence of metabolic activation. In vitro cytogenicity An in vitro micronucleus assay was performed with the test substance (Schweikl, 2001). In two independent experiments, Chinese hamster lung fibroblasts were exposed to the test substance dissolved in DMSO at concentrations of 11.75, 23.5, 35.25 µg/mL for 24 h in the absence of metabolic activation. Cytotoxicity of the test substance was observed and the TC50 value was assessed to be 24 µg/mL. At cytotoxic concentration levels of the test substance (= 24 µg/mL) the numbers of micronuclei were slightly increased in the absence of metabolic activation. Ethyl methanesulphonate was used as positive control and produced a distinct increase in micronuclei frequency indicating that the test conditions were adequate. Under the conditions of this experiment, the potential of the test substance to induce micronuclei is equivocal. In vitro mutagenicity in mammalian cells An in vitro HPRT assay was performed with the test substance (Schweikl, 1998). In three replicate cultures Chinese hamster lung fibroblasts were exposed to the test substance dissolved in DMSO at concentrations of 11.75, 23.5, 35.25 µg/mL for 24 h in the absence of metabolic activation. Cytotoxicity of the test substance was observed at concentrations = 23.5 µg/mL. No mutagenic activity of UDMA was detected. Ethyl methanesulphonate was used as positive control and produced a distinct increase in mutant frequency indicating that the test conditions were adequate. Thus, under the conditions of this experiment, the test substance did not show mutagenicity in V79 cells without metabolic activation. Due to the positive result in the in vitro micronucleus test without metabolic activation at cytotoxic concentrations a micronucleus test in vivo should be conducted to conclude on genotoxic potential of the test substance. Reproductive toxicity: The available data on toxicity to reproduction do not meet the criteria for classification according to Regulation (EC) 1272/2008, and are therefore conclusive but not sufficient for classification. reproductive toxicity: NOAEL >= 1000 mg/kg bw/day for males and females of the parental generation systemic toxicity: NOAEL = 100 mg/kg bw/day for males and 300 mg/kg bw/day for females of the parental generation A reliable sub-acute study regarding reproductive/developmental toxicity is available for the test substance. The potential reproductive or developmental toxicity of the test substance was assessed in a sub-acute combined repeated dose toxicity study with the reproductive/developmental toxicity screening test in Hsd. Han: Wistar rats performed according to OECD Guideline 422 and in compliance with GLP. Three groups of 12 male and 12 female rats received the test substance in polyethylene glycol as vehicle at doses of 100, 300 or 600 mg/kg bw/day orally via gavage at concentrations of 0, 25, 75 and 150 mg/mL corresponding to a 4 mL/kg bw dosing volume. A control group of 12 animals/sex received the vehicle only. In addition, 5 animals/sex were added to the control and high dose group to assess the reversibility of any effects observed at the high dose level (recovery group). All animals of the parental generation were dosed prior to mating (14 days) and throughout mating. In addition, males received the test item or vehicle after mating up to the day before necropsy (altogether for 56 days). Females were additionally exposed through the gestation period and up to lactation days 13 - 21, i.e. up to the day before necropsy (altogether for 56, 57 or 64 days). Observations included mortality, clinical signs, body weight, food consumption, mating, pregnancy and delivery process, lactation as well as development of offspring. The dams were allowed to litter, and rear their offspring up to day 13 post-partum. Litters were weighed and offspring were observed for possible abnormalities and were euthanized on post-natal day 13 or shortly thereafter. Blood samples were collected for determination of serum levels of thyroid hormones (T4) from all pups per litter at termination on post-natal day 13. No adverse effect on mortality, clinical signs, body weight or necropsy findings were detected in the offspring terminated as scheduled. Thyroid homone levels (T4) in pups on post-natal day 13 were not affected. The anogenital distance (male and female) or nipple retention (male) was not affected due to treatment with the test substance. For the parental animals pale livers and histopathological changes in the liver (hepatic lipidosis) were observed at 300 mg/kg bw/day for males and 1000 mg/kg bw/day for females. Thus, under the conditions of this study, the NOAEL of the test substance for systemic toxicity of the parental generation following oral administration via gavage for 56 days is 100 mg/kg bw/day in male Wistar rats. The corresponding NOAEL in female Wistar rats following oral administration via gavage for 56, 57 or 64 days is 300 mg/kg bw/day. The corresponding NOAEL for the offspring is 1000 mg/kg bw/day. * REACh Dossier UV (ultraviolet)/ EB (electron beam) acrylates are generally of low toxicity UV/EB acrylates are divided into two groups; "stenomeric" and "eurymeric" acrylates. The first group consists of well-defined acrylates which can be described by a simple idealised chemical; they are low molecular weight species with a very narrow weight distribution profile. The eurymeric acrylates cannot be described by an idealised structure and may differ fundamentally between various suppliers; they are of relatively high molecular weigh and possess a wide weight distribution. Stenomeric acrylates are usually more hazardous than the eurymeric substances. Stenomeric acrylates are also well defined which allows comparison and exchange of toxicity data - this allows more accurate classification. The stenomerics cannot be classified as a group; they exhibit substantial variation. Based on the available oncogenicity data and without a better understanding of the carcinogenic mechanism the Health and Environmental Review Division (HERD), Office of Toxic Substances (OTS), of the US EPA previously concluded that all chemicals that contain the acrylate or methacrylate moiety (CH2=CHCOO or CH2=C(CH3)COO) should be considered to be a carcinogenic hazard unless shown otherwise by adequate testing. This position has now been revised and acrylates and methacrylates are no longer de facto carcinogens. Where no "official" classification for acrylates and methacrylates exists, there has been cautious attempts to create classifications in the absence

TRIETHYLENE GLYCOL DIMETHACRYLATE & DIURETHANE DIMETHACRYLATE of contrary evidence. For example

Monalkyl or monoarylesters of acrylic acids should be classified as R36/37/38 and R51/53 Monoalkyl or monoaryl esters of methacrylic acid should be classified as R36/37/38

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 eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. 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. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. DIURETHANE Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test, oral (OECD 422), rat: DIMETHACRYLATE Acute Toxicity × Carcinogenicity × ~ × Skin Irritation/Corrosion Reproductivity × ¥ Serious Eye Damage/Irritation STOT - Single Exposure Respiratory or Skin ¥ × STOT - Repeated Exposure sensitisation × Mutagenicity X 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

| | Endpoint | Test Duration (hr) | Species | Value | Source |
|---------------------------|------------------|--------------------|--|----------------------|-----------------------|
| Riva Coat | Not Available | Not Available | Not Available | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| triethylene glycol | EC50 | 72h | Algae or other aquatic plants | 72.8mg/l | 2 |
| dimethacrylate | LC50 | 96h | Fish | 16.4mg/l | 2 |
| | NOEC(ECx) | 72h | Algae or other aquatic plants | 18.6mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 72h | Algae or other aquatic plants | >0.68mg/l | 2 |
| | EC50 | 48h | Crustacea | >1.2mg/l | 2 |
| diurethane dimethacrylate | L030 | -011 | er de la construction de | - | |
| diurethane dimethacrylate | LC50 | 96h | Fish | 10.1mg/l | Not Available |
| diurethane dimethacrylate | | | | 10.1mg/l 0.21mg/l | Not Available 2 |

DO NOT discharge into sewer or waterways.

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|--|--|------------------|
| triethylene glycol dimethacrylate | LOW | LOW |
| | | |
| Bioaccumulative potential | | |
| Bioaccumulative potential Ingredient triethylene glycol dimethacrylate | Bioaccumulation LOW (LogKOW = 1.88) | |

Mobility Ingredient triethylene glycol dimethacrylate LOW (KOC = 10)

SECTION 13 Disposal considerations

| Waste treatment methods | |
|------------------------------|---|
| 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. Where in doubt contact the responsible authority. 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). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed. |

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 |
|-----------------------------------|---------------|
| triethylene glycol dimethacrylate | Not Available |
| diurethane dimethacrylate | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|-----------------------------------|---------------|
| triethylene glycol dimethacrylate | Not Available |
| diurethane dimethacrylate | Not Available |

SECTION 15 Regulatory information

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

triethylene glycol dimethacrylate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

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

diurethane dimethacrylate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

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) | 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 |
| 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 | No |
| Specific target organ toxicity (single or repeated exposure) | |
| Aspiration Hazard | No |
| Germ cell mutagenicity | No |
| Simple Asphyxiant | No |
| Hazards Not Otherwise Classified | No |

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 | No (diurethane dimethacrylate) | | |
| Canada - NDSL | No (triethylene glycol dimethacrylate) | | |
| China - IECSC | Yes | | |
| Europe - EINEC / ELINCS / NLP | Yes | | |
| Japan - ENCS | No (diurethane dimethacrylate) | | |
| Korea - KECI | Yes | | |
| New Zealand - NZIoC | Yes | | |
| Philippines - PICCS | Yes | | |
| USA - TSCA | Yes | | |
| Taiwan - TCSI | Yes | | |
| Mexico - INSQ | No (diurethane dimethacrylate) | | |
| Vietnam - NCI | Yes | | |
| Russia - FBEPH | No (diurethane dimethacrylate) | | |
| 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 | 10/03/2023 |
|---------------|------------|
| Initial Date | 10/11/2015 |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|----------------|---|
| 9.1 | 10/12/2021 | Classification change due to full database hazard calculation/update. |
| 10.1 | 10/03/2023 | Classification change due to full database hazard calculation/update. |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited 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
 BCE: BioConcentration Factors
- 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
- IECSC: Inventory of Existing Chemical Substance in China
 EINECS: European INventory of Existing Commercial chemical
- 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

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Other information:

Prepared by: SDI Limited 3-15 Brunsdon Street, Bayswater Victoria, 3153, Australia Phone Number: +61 3 8727 7111 Department issuing SDS: Research and Development Contact: Technical Director