SAFETY DATA SHEET



AS300 Synthetic Activator

| Section 1. Identif | ication |
|--|---|
| Product name | : AS300 Synthetic Activator |
| Product type | : Liquid. |
| Relevant identified uses of | the substance or mixture and uses advised against |
| Identified uses | |
| Use in coatings - Hardener. | |
| Uses advised against Not applicable. | |
| Supplier | |
| Manufacturer | : Valspar b.v. Zuiveringweg 89 8243 PE Lelystad The Netherlands tel: +31 (0)320 292200 fax: +31 (0)320 292201 |
| Emergency telephone number | : Call: +31 (0)320 292200 (during daytime) |
| Supplier's details | : DBNZ Coatings Limited 176 Ossie James Drive Hamilton Airport, 3282 NEW ZEALAND T: +64 7847 0944 E: info@dbnz.co.nz |
| Emergency telephone number (with hours of operation) | : New Zealand Poisons Information Centre: 0800 764766 (24 hrs) CALL: +(64)-98010034 (Hours of operation - 24 hours) |
| e-mail address of person responsible for this SDS | : autoinfo@valspar.com |
| Section 2. Hazard | ds identification |
| HSNO Classification | : FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2 RESPIRATORY SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 hazardous according to criteria in the Hazardous Substances (Hazard Classification) |
| Notice 2020. This material is classified as | DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 |
| Transport of Dangerous Goo | us on Lanu. |
| <u>GHS label elements</u> Signal word | : Danger |
| | |

Section 2. Hazards identification

| Hazard statements | Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. |
|--------------------------|---|
| Precautionary statements | |
| General | : Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. |
| Prevention | : Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. |
| Response | : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Symbol | |

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

```
Substance/mixture
```

: Mixture

| Ingredient name | % (w/w) | CAS number |
|---|-----------|------------|
| n-butyl acetate | ≥30 - ≤60 | 123-86-4 |
| Aliphatic polyisocyanate 2 | ≥30 - ≤60 | 53880-05-0 |
| Solvent naphtha (petroleum), light arom. | ≤10 | 64742-95-6 |
| Naphtha (petroleum), hydrotreated heavy | ≤10 | 64742-48-9 |
| nonane | ≤0.3 | 111-84-2 |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | ≤0.3 | 4098-71-9 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

| Description of necessa | ry first aid measures |
|------------------------|---|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure. |
| Ingestion | : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |

Most important symptoms/effects, acute and delayed

Potential acute health effects

| Polential acute nearth enects | | |
|-------------------------------|--|--|
| Inhalation | : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| Ingestion | May be fatal if swallowed and enters airways. | |
| Skin contact | : May cause an allergic skin reaction. | |
| Eye contact | : Causes serious eye irritation. | |
| Over-exposure signs/sympton | <u>ms</u> | |
| Inhalation | Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma | |
| Ingestion | Adverse symptoms may include the following: nausea or vomiting | |
| Skin | Adverse symptoms may include the following: irritation redness | |
| Eyes | Adverse symptoms may include the following: pain or irritation watering redness | |
| Indication of immediate medic | al attention and special treatment needed, if necessary | |
| Specific treatments | No specific treatment. | |
| Notes to physician | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. | |

Section 4. First aid measures

| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. If it |
|----------------------------|--|
| | is suspected that fumes are still present, the rescuer should wear an appropriate |
| | mask or self-contained breathing apparatus. It may be dangerous to the person |
| | providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing |
| | thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

Section 5. Firefighting measures

| Extinguishing media | |
|--|--|
| Suitable | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Not suitable | : Do not use water jet. |
| Specific hazards arising from the chemical | : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides |
| Hazchem code | : 3Y |
| Special precautions for fire- fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|--------------------------------|---|--|
| For emergency responders | : | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | : | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. |

Methods and material for containment and cleaning up

Section 6. Accidental release measures

| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
|-------------|--|
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|---|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage, including any incompatibilities | : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|----------------------------|--|
| n-butyl acetate | NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). WES-TWA: 150 ppm 8 hours. WES-TWA: 713 mg/m ³ 8 hours. WES-STEL: 950 mg/m ³ 15 minutes. |
| Aliphatic polyisocyanate 2 | WES-STEL: 200 ppm 15 minutes. NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Isocyanates, all] Skin sensitiser. Inhalation sensitiser. |
| /ersion : 1 | Date of issue/Date of revision : 12/16/2022 |

Section 8. Exposure controls/personal protection

| | WES-TWA: 0.02 mg/m³, (measured as - NCO) 8 hours. WES-STEL: 0.07 mg/m³, (measured as - NCO) 15 minutes. |
|---|---|
| Naphtha (petroleum), hydrotreated heavy | ACGIH TLV (United States, 2002). |
| nonane | TWA: 525 mg/m ³ 8 hours. NZ HSWA 2015 - GRWM 2016 (New |
| | Zealand, 11/2020). |
| | WES-TWA: 200 ppm 8 hours. |
| | WES-TWA: 1050 mg/m ³ 8 hours. |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Isocyanates, all] Skin sensitiser. Inhalation sensitiser. Notes: measured as -NCO WES-STEL: 0.07 mg/m ³ , (measured as - NCO) 15 minutes. |
| | WES-TWA: 0.02 mg/m³, (measured as - NCO) 8 hours. |

| Appropriate engineering controls | : | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. | | |
|----------------------------------|----|---|--|--|
| Environmental exposure controls | : | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. | | |
| Individual protection measur | es | | | |
| Hygiene measures | : | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. | | |
| Eye/face protection | : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: chemical splash goggles and/or face shield. | | |
| Skin protection | | | | |
| Hand protection | : | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Recommended EN 374 butyl rubber polyvinyl alcohol (PVA) Viton >= 0.7 mm < 1 hour (breakthrough time): Conditionally suitable materials for protective gloves; EN 374: Nitrile rubber - NBR (>= 0.35 mm). Only suitable as splash protection. Only suitable for brief exposure. In the event of contamination, change protective gloves immediately. | | |

Section 8. Exposure controls/personal protection

| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Recommended: Cotton or cotton/synthetic overalls or coveralls are normally suitable. |
|------------------------|---|
| Other skin protection | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: EN 405:2001 + A1:2009 organic vapour (Type A) and particulate filter FFA2P3 R D |

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

| <u>Appearance</u> | |
|---|-------------------------------|
| Physical state | : Liquid. |
| Colour | : Colourless. |
| Odour | : Not available. |
| Odour threshold | : Not available. |
| рН | : Not applicable. |
| Melting point/freezing point | : Not available. |
| Boiling point, initial boiling point, and boiling range | : Not available. |
| Flash point | : Closed cup: 28.5°C (83.3°F) |
| Flammability | : Not available. |
| Lower and upper explosion limit/flammability limit | : Lower: 0.7% Upper: 7% |

÷

Vapour pressure

| | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|--|-------------------------|-------|----------------|-------------------------|-----|--------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| water | 23.8 | 3.2 | | | | |
| n-butyl acetate | 11.25 | 1.5 | DIN EN 13016-2 | | | |
| nonane | 3.15 | 0.42 | | | | |
| Solvent naphtha (petroleum), light arom. | 1.5 | 0.2 | | | | |
| Naphtha (petroleum), hydrotreated heavy | 1.5 | 0.2 | | | | |
| Aliphatic polyisocyanate 2 | 0 | 0 | OECD 104 | | | |
| 3-isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate | 0 | 0 | | | | |
| elative vapour density | : 4 [Air = | 1] | | • | | |
| elative density | : 0.933 | | | | | |
| ensity | : 0.933 g | g/cm³ | | | | |
| olubility(ies) | : | | | | | |

Section 9. Physical and chemical properties and safety characteristics

| | Media | | Result | |
|----|--------------------------|-------|----------------------------|--|
| | cold water hot water | | Not soluble Not soluble | |
| S | olubility in water | : Not | available. | |
| Pa | artition coefficient: n- | : Not | applicable. | |

Partition coefficient: noctanol/water

Auto-ignition temperature

2

| Ingredient name | °C | °F | Method | |
|---|------------------|--------------------|---------|--|
| nonane | 205 | 401 | | |
| Naphtha (petroleum), hydrotreated heavy | 237 | 458.6 | | |
| Solvent naphtha (petroleum), light arom. | 280 to 470 | 536 to 878 | | |
| n-butyl acetate | 415 | 779 | EU A.15 | |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 430 | 806 | | |
| ecomposition temperature : Not avai | lable. | | | |
| ' iscosity : Kinemat | ic (40°C (104°F) |): 6 mm²/s (6 cSt) | | |
| article characteristics | | | | |

Median particle size : Not applicable.

| Section 10. Stability and reactivity | | | |
|--------------------------------------|---|--|--|
| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. | | |
| Chemical stability | : The product is stable. | | |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. | | |
| Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas. | | |
| Incompatible materials | : Reactive or incompatible with the following materials: oxidising materials | | |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. | | |

Section 11. Toxicological information

| Information on likely r | routes of exposure |
|-------------------------|--|
| Inhalation | Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Ingestion | : May be fatal if swallowed and enters airways. |
| Skin contact | : May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye irritation. |

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma |
|--------------|--|
| Ingestion | : Adverse symptoms may include the following: nausea or vomiting |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------------|---------|-------------------------|----------|
| n-butyl acetate | LC50 Inhalation Gas. | Rat | 390 ppm | 4 hours |
| | LC50 Inhalation Vapour | Rat | >21.1 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >14112 mg/kg | - |
| | LD50 Oral | Rat | 10760 mg/kg | - |
| Aliphatic polyisocyanate 2 | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours |
| | LD50 Oral | Rat | >14000 mg/kg | - |
| Solvent naphtha (petroleum), light arom. | LC50 Inhalation Vapour | Rat | 6193 mg/m³ | 4 hours |
| | LD50 Dermal | Rabbit | >3160 mg/kg | - |
| | LD50 Oral | Rat | 3592 mg/kg | - |
| Naphtha (petroleum), hydrotreated heavy | LC50 Inhalation Vapour | Rat | 5000 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| nonane | LC50 Inhalation Gas. | Rat | 3200 ppm | 4 hours |
| | LC50 Inhalation Vapour | Rat | 17000 mg/m ³ | 4 hours |
| 3-isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate | LC50 Inhalation Dusts and mists | Rat | 123 mg/m³ | 4 hours |
| - | LC50 Inhalation Vapour | Rat | 4.1 mg/l | 4 hours |
| | LD50 Dermal | Rat | >7000 mg/kg | - |
| | LD50 Oral | Rat | 4825 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------|---------|-------|--------------------------|-------------|
| n-butyl acetate | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| Solvent naphtha (petroleum), light arom. | Eyes - Mild irritant | Rabbit | - | mg 24 hours 100 uL | - |
| nonane | Skin - Mild irritant | Pig | - | 24 hours 250 uL | - |
| | Skin - Moderate irritant | Rat | - | 96 hours 300 uL | - |

Sensitisation

Not available.

Potential chronic health effects

General

: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Section 11. Toxicological information

| Inhalation | Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
|------------------------------|---|
| Ingestion | : No known significant effects or critical hazards. |
| Skin contact | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Eye contact | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |
| Chronic toxicity | |
| Not available. | |

Carcinogenicity

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

| Product/ingredient name | | Route of exposure | Target organs |
|---|------------|-------------------|-----------------------------------|
| Aliphatic polyisocyanate 2 | Category 3 | - | Respiratory tract 🥄 irritation |
| Naphtha (petroleum), hydrotreated heavy | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name

Solvent naphtha (petroleum), light arom. Naphtha (petroleum), hydrotreated heavy nonane

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|------------------|-------------------|--------------------------------|-----------------------------------|--|
| AS300 Synthetic Activator | N/A | N/A | 10860 | 63.6 | N/A |
| n-butyl acetate | 10760 | N/A | 4500 | N/A | N/A |
| Solvent naphtha (petroleum), light arom. | 3592 | N/A | N/A | 6.193 | N/A |
| nonane | N/A | N/A | 3200 | 17 | N/A |
| 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate | 500 | N/A | N/A | 4.1 | 0.5 |

Exposure

Section 12. Ecological information

Ecotoxicity

: This material is harmful to aquatic life with long lasting effects.

Aquatic and terres

| Aquatic and terrestrial toxicity | | | |
|----------------------------------|--------|---------|--|
| Product/ingredient name | Result | Species | |
| | | | |

| • | | - | - |
|--|---------------------------------|--|------------|
| n-butyl acetate | Acute EC50 397 mg/l | Algae - Selenastrum capricornutum | 72 hours 🥄 |
| | Acute EC50 44 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 32 mg/l Marine water | Crustaceans - Artemia salina | 48 hours |
| | Acute LC50 18 mg/l | Fish - Pimephales promelas | 96 hours |
| | Acute NOEC 200 mg/l | Algae | 72 hours |
| Aliphatic polyisocyanate 2 | Acute EC50 >100 mg/l | Daphnia | 48 hours |
| | Acute EC50 >100 mg/l | Fish | 96 hours |
| Solvent naphtha (petroleum), light arom. | Acute EC50 2.9 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| - | Acute EC50 3.2 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 9.2 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute NOEC >1 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| 3-isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate | Acute EC50 >70 mg/l | Algae | 72 hours |
| - | Acute EC50 27 mg/l Fresh water | Daphnia | 48 hours |
| | Acute LC50 >208 mg/l | Fish | 96 hours |

Persistence/degradability

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|--|--|---------------------|-------------|------|--|
| n-butyl acetate | OECD 301D Ready Biodegradability - Closed Bottle Test | >80 % - 5 days | | - | - |
| Aliphatic polyisocyanate 2 | OECD 302C Inherent Biodegradability: Modified MITI Test (II) | 5 % - 28 days | | - | - |
| | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 1 % - 28 days | | - | - |
| Solvent naphtha (petroleum), light arom. | - | 78 % - Readily - 28 | days | - | Fresh water |
| Naphtha (petroleum), hydrotreated heavy | - | 80 % - Readily - 28 | days | - | - |
| Product/ingredient name | Aquatic half-life | | Photolysi | S | Biodegradability |
| n-butyl acetate Aliphatic polyisocyanate 2 Solvent naphtha (petroleum), light arom. Naphtha (petroleum), hydrotreated heavy | - | | - - - | | Readily Not readily Readily Readily |

Bioaccumulative potential

Section 12. Ecological information

| Product/ingredient name | LogPow | BCF | Potential |
|---|-----------------------------------|----------------------------------|-----------------------------------|
| Aliphatic polyisocyanate 2 Solvent naphtha (petroleum), light arom. nonane | 2.3 14.48 - 5.65 0.99 | - - 10 to 2500 105 - | low high high low low |

Mobility in soil

| Soil/water partition | : Not available. |
|----------------------|------------------|
| coefficient (Koc) | |

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

| Disposal methods | : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and |
|------------------|---|
| | |

Section 14. Transport information

| | New Zealand | IMDG | ΙΑΤΑ |
|----------------------------|---|---|------------------------|
| UN number | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | Paint related material |
| Transport hazard | 3 | 3 | 3 |
| class(es) | T-AMAGE 1 | | |
| Packing group | III | Ш | Ш |
| Environmental hazards | No. | No. | No. |
| Additional information | tion | | |
| New Zealand | : Hazchem code 3Y Special provisions | | |
| IMDG | : <u>Emergency sched</u> <u>Special provisions</u> | <u>ules</u> F-E, _S-E_ <u>3</u> 163, 223, 367, 955 | |

Page: 12/14

Section 14. Transport information

| IATA: Quantity limitation Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. Special provisions A3, A72, A192Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.Transport in bulk according to IMO instruments: Not available. | Section 15. Regula | ate | ory information |
|---|------------------------------|-----|---|
| 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. Special provisions A3, A72, A192 Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in | | : | Not available. |
| 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. | Special precautions for user | : | upright and secure. Ensure that persons transporting the product know what to do in |
| | ΙΑΤΑ | : | 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344. |

| occuon to regu | |
|----------------------|---|
| HSNO Approval Number | : HSR002662 |
| HSNO Group Standard | : Surface Coatings and Colourants |
| HSNO Classification | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2 RESPIRATORY SENSITISATION - Category 1 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |

International regulations

| Chemical Weapon Convention List Schedules I, II & III Chemicals | |
|---|--|
| Not listed. | |

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

| Inventory list | | |
|-------------------------|---|---|
| Australia | : | All components are listed or exempted. |
| Canada | 1 | All components are listed or exempted. |
| China | : | All components are listed or exempted. |
| Eurasian Economic Union | : | Russian Federation inventory: Not determined. |
| Japan | : | Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined. |
| New Zealand | 1 | All components are listed or exempted. |
| Philippines | 1 | All components are listed or exempted. |
| Republic of Korea | 1 | All components are listed or exempted. |
| Taiwan | 1 | Not determined. |
| Thailand | 1 | Not determined. |
| Turkey | 1 | Not determined. |
| United States | : | Not determined. |
| Viet Nam | 1 | Not determined. |

Section 16. Other information

| <u>History</u> | |
|--------------------------------|---|
| Date of printing | : 12/16/2022 |
| Date of issue/Date of revision | : 12/16/2022 |
| Date of previous issue | : 12/16/2022 |
| Version | : 1 |
| Key to abbreviations | : ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail SGG = Segregation Group UN = United Nations |
| References | : Not available. |

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.