SAFETY DATA SHEET



AU570 Clear Coat Anti -Graffiti Activator

Section 1. Identification

Product name : AU570 Clear Coat Anti -Graffiti Activator

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Use in coatings - Hardener.

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

6 Killarney Lane Hamilton 3204 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

: msds@de-beer.com

Section 2. Hazards identification

HSNO Classification

: 3.1 - FLAMMABLE LIQUIDS - Category C

6.1 - ACUTE TOXICITY (oral) - Category E

6.1 - ACUTE TOXICITY (inhalation) - Category D

6.3 - SKIN IRRITATION - Category A

6.4 - EYE IRRITATION - Category A (Irritant) 6.5 - SENSITIZATION - Category A (Respiratory)

6.7 - CARCINOGENICITY - Category B

6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY - Category B 6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED

EXPOSURE) - Category B

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word : Danger

Page: 2/13

Section 2. Hazards identification

Hazard statements

: Flammable liquid and vapour.

May be harmful if swallowed.

Causes skin irritation.

Causes serious eve irritation.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs.

Precautionary statements

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye/face protection. Wear appropriate respiratory protection. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Use explosion-proof electrical, ventilating, lighting and all materialhandling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response

: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Take off contaminated clothing and wash before reuse. Rinse skin with water [or shower]. Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage

Disposal

: Store locked up. Store in a well-ventilated place. Keep cool.

: 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

Substance/mixture

: Mixture

Section 3. Composition/information on ingredients

| Ingredient name | % (w/w) | CAS number |
|---------------------------------|----------|------------|
| Aliphatic polyisocyanate | 50 - 100 | 28182-81-2 |
| 2-methoxy-1-methylethyl acetate | 5 - 12.5 | 108-65-6 |
| xylene | 5 - 12.5 | 1330-20-7 |
| ethylbenzene | 1 - 5 | 100-41-4 |
| hexamethylene-di-isocyanate | 0 - 1 | 822-06-0 |

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.

Version Date of issue/Date of revision: 2/24/2021 : 1

Page: 3/13

Section 4. First aid measures

Description of necessary first aid measures

Inhalation

: Get medical attention immediately. 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. 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

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. 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

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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

Inhalation : Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Ingestion : May be harmful if swallowed.

Skin contact: Causes skin irritation.

Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Skin: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Eyes : Adverse symptoms may include the following:

pain or irritation watering redness

Indication of immediate medical attention and special treatment needed, if necessary

Specific treatments: Not available.

Section 4. First aid measures

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.

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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable

: Use dry chemical, CO2, water spray (fog) or foam.

Not suitable

: Do not use water jet.

Specific hazards arising from the chemical

: Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides

Hazchem code

: 3Y

Special precautions for firefighters : 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 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 (see Section 8).

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).

Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. 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). Use spark-proof tools and explosion-proof equipment. 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

: Put on appropriate personal protective equipment (see Section 8). 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. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. 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. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

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. 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 |
|---------------------------------|---|
| Aliphatic polyisocyanate | NZ HSWA 2015 (New Zealand, 11/2018). Skin sensitiser. WES-TWA: 0.02 mg/m³, (measured as - NCO) 8 hours. WES-STEL: 0.07 mg/m³, (measured as - NCO) 15 minutes. |
| 2-methoxy-1-methylethyl acetate | EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin. STEL: 548 mg/m³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. |
| xylene | NZ HSWA 2015 (New Zealand, 11/2018). Notes: See Notice of Intended Changes. WES-TWA: 217 mg/m³, 0 times per shift, 8 hours. WES-TWA: 50 ppm, 0 times per shift, 8 hours. |
| ethylbenzene | NZ HSWA 2015 (New Zealand, 11/2018). WES-STEL: 543 mg/m³ 15 minutes. WES-STEL: 125 ppm 15 minutes. WES-TWA: 434 mg/m³ 8 hours. WES-TWA: 100 ppm 8 hours. |
| hexamethylene-di-isocyanate | NZ HSWA 2015 (New Zealand, 11/2018). Skin sensitiser. Notes: measured as - NCO WES-STEL: 0.07 mg/m³, (measured as - NCO) 15 minutes. |

Section 8. Exposure controls/personal protection

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 measures

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: full-face mask supplied-air respirator.

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
 - 4 8 hours (breakthrough time): Recommended EN 374 neoprene rubber >= 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.

Eye 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: If inhalation hazards exist, a full-face respirator may be required instead.

Skin 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.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Colourless.

Odour : Not available.

Odour threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : <100°C (<212°F)

AU570 Clear Coat Anti -Graffiti Activator

Page: 7/13

Section 9. Physical and chemical properties

: Closed cup: 37°C (98.6°F) **Flash point**

Evaporation rate : Not available. Flammability (solid, gas) Not available. Lower and upper explosive : Not available.

(flammable) limits

Vapour pressure : Not available. Vapour density : Not available.

1.068 Relative density

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water Not available. Partition coefficient: n-: Not available.

octanol/water

Auto-ignition temperature Decomposition temperature

: Not available. : Not available. Viscosity Not available. Flow time (ISO 2431) : Not available.

Aerosol product

Type of aerosol Not applicable. **Heat of combustion** : Not available. Ignition distance : Not applicable. **Enclosed space ignition -**: Not applicable.

Time equivalent

Enclosed space ignition -

Deflagration density

: Not applicable.

Flame height : Not applicable. : Not applicable. Flame duration

Section 10. Stability and reactivity

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.

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 routes of exposure

Inhalation : Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

: May be harmful if swallowed. Ingestion

Skin contact : Causes skin irritation.

Eye contact : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced foetal weight increase in foetal deaths skeletal malformations

Version Date of issue/Date of revision: 2/24/2021 : 1

Page: 8/13

Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Eye contact: Adverse symptoms may include the following:

pain or irritation watering

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 |
|---------------------------------|---------------------------------|--------------------------|-----------------------|----------|
| Aliphatic polyisocyanate | LC50 Inhalation Dusts and mists | Rat | 2.18 mg/l | 4 hours |
| | LD50 Dermal | Rabbit - Male, Female | >2000 mg/kg | - |
| | LD50 Dermal | Rat - Male, Female | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | _ |
| 2-methoxy-1-methylethyl acetate | LD50 Dermal | Rat | >5000 mg/kg | - |
| | LD50 Oral | Rat - Female | >5000 mg/kg | - |
| xylene | LC50 Inhalation Gas. | Rat | 6350 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 12126 mg/kg | - |
| | LD50 Oral | Rat | 3523 to 4000 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 6350 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 12126 mg/kg | - |
| | LD50 Oral | Rat | 3523 to 4000 mg/kg | - |
| hexamethylene-di- isocyanate | LC50 Inhalation Dusts and mists | Rat | 0.124 mg/l | 4 hours |
| | LD50 Dermal | Rat | >7000 mg/kg | - |
| | LD50 Oral | Rat | 746 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--------------------------|--------------------------|---------|-------|---------------------------|-------------|
| Aliphatic polyisocyanate | Skin - Mild irritant | Rabbit | - | 4 hours | - |
| | Eyes - Mild irritant | Rabbit | - | - | - |
| xylene | Skin - Mild irritant | Rat | - | 8 hours 60 microliters | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 100 Percent | - |
| | Eyes - Mild irritant | Rabbit | - | 87 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 5 milligrams | - |
| ethylbenzene | Eyes - Severe irritant | Rabbit | - | 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 milligrams | - |

Sensitisation

Page: 9/13

Section 11. Toxicological information

| 3 | Route of exposure | Species | Result |
|--------------------------|-------------------|------------|-------------|
| Aliphatic polyisocyanate | skin | Mouse | Sensitising |
| | skin | Guinea pig | Sensitising |

Potential chronic health effects

General : No known significant effects or critical hazards.

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 : No known significant effects or critical hazards.
 Eye contact : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : Suspected of damaging the unborn child.
 Developmental effects : No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Chronic toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------|---|-----------------------|------|-----------------------------|
| Aliphatic polyisocyanate | Sub-chronic NOAEL Inhalation Dusts and mists | Rat - Male, Female | | 90 days; 6 hours per day |

Carcinogenicity

Not available.

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|--------------------------|--|---|----------------------|
| Aliphatic polyisocyanate | OECD 471 Bacterial Reverse Mutation Test OECD 476 In vitro Mammalian Cell Gene Mutation Test | Experiment: In vitro Subject: Bacteria Metabolic activation: +/- Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: +/- | Negative Negative |

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity

| Name | Category | Route of exposure | Target organs |
|-----------------------------|------------|-------------------|----------------|
| xylene | Category B | Oral | Not determined |
| | | Inhalation | Not determined |
| ethylbenzene | Category B | Inhalation | Not determined |
| hexamethylene-di-isocyanate | Category A | Inhalation | Not determined |

Aspiration hazard

Not available.

Numerical measures of toxicity

Acute toxicity estimates

Page: 10/13

Section 11. Toxicological information

| Route | ATE value |
|------------------------------|--------------|
| Oral | 4761.9 mg/kg |
| Dermal | 11000 mg/kg |
| Inhalation (vapours) | 440 mg/l |
| Inhalation (dusts and mists) | 2.92 mg/l |

Section 12. Ecological information

Ecotoxicity

: No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

| Product/ingredient name | Result | Species | Exposure |
|---------------------------------|-------------------------|--|----------|
| Aliphatic polyisocyanate | Acute EC50 >1000 mg/l | Algae - Scenedesmus subspicatus | 72 hours |
| | Acute EC50 >100 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 >100 mg/l | Fish - Danio rerio | 96 hours |
| 2-methoxy-1-methylethyl acetate | Acute EC50 >1000 mg/l | Algae - Pseudokirchnerella subcapitata | 96 hours |
| | Acute EC50 408 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 134 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| xylene | Acute EC50 1 to 10 mg/l | Algae | 72 hours |
| | Acute EC50 1 to 10 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 1 to 10 mg/l | Fish | 96 hours |
| ethylbenzene | Acute LC50 >10 mg/l | Fish - Pimephales promelas | 96 hours |

Persistence/degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---------------------------------|--|-----------------------------|------|----------|
| Aliphatic polyisocyanate | EU 67/548/EEC | 1 % - Not readily - 28 days | - | - |
| 2-methoxy-1-methylethyl acetate | ANNEX V, C.4.E. OECD 302B Inherent Biodegradability: Zahn-Wellens/ | 100 % - 28 days | - | - |
| | EMPA Test OECD 301F Ready Biodegradability - Manometric Respirometry Test | 83 % - 28 days | - | - |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|----------------------------|------------|------------------------|
| Aliphatic polyisocyanate 2-methoxy-1-methylethyl | Fresh water 7.7 days, 23°C | | Not readily Readily |
| acetate | | | , |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-----------------------------|--------|-------------|-----------|
| Aliphatic polyisocyanate | 5.54 | 367.7 | low |
| 2-methoxy-1-methylethyl | 1.2 | - | low |
| acetate | | | |
| xylene | 3.12 | 8.1 to 25.9 | low |
| ethylbenzene | 3.6 | - | low |
| hexamethylene-di-isocyanate | 0.02 | 57.63 | low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

Page: 11/13

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 sewers.

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label |
|------------------------|-----------|------------------------|---------|-----|--|
| New Zealand Class | UN1263 | PAINT RELATED MATERIAL | 3 | III | P. AMMORE P. AMM |
| ADG Class | UN1263 | PAINT RELATED MATERIAL | 3 | III | ₹ |
| UN Class | UN1263 | PAINT RELATED MATERIAL | 3 | III | |
| ADR/RID Class | UN1263 | PAINT RELATED MATERIAL | 3 | III | (|
| IATA Class | UN1263 | Paint related material | 3 | III | ₹ |
| IMDG Class | UN1263 | PAINT RELATED MATERIAL | 3 | III | |

Additional information

UN Class

New Zealand Class : <u>Hazchem code</u> 3Y

Special provisions 163, 223

ADG Class : <u>Hazchem code</u> •3Y

Special provisions 163, 223, 367 **Special provisions** 163, 223, 367

ADR/RID Class : <u>Hazard identification number</u> 30

. Itazara identification number

Limited quantity 5 L

Special provisions 163, 640E, 650, 367

Tunnel code (D/E)

IATA Class : 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, A192

Page: 12/13

Section 14. Transport information

IMDG Class : Emergency schedules F-E, _S-E_

Special provisions 163, 223, 367, 955

PG*: Packing group

Transport in bulk according: Not available.

to IMO instruments

Section 15. Regulatory information

HSNO Approval Number : HSR002669

HSNO Group Standard : Surface Coatings and Colourants

HSNO Classification : 3.1 - FLAMMABLE LIQUIDS - Category C 6.1 - ACUTE TOXICITY (oral) - Category E

6.1 - ACUTE TOXICITY (inhalation) - Category D

6.3 - SKIN IRRITATION - Category A

6.4 - EYE IRRITATION - Category A (Irritant)6.5 - SENSITIZATION - Category A (Respiratory)

6.7 - CARCINOGENICITY - Category B

6.8 - REPRODUCTIVE AND DEVELOPMENTAL TOXICITY - Category B 6.9 - SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED

EXPOSURE) - Category B

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 : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

Malaysia: All components are listed or exempted.New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

Thailand : Not determined.

Turkey: All components are listed or exempted.

United States : Not determined.

Viet Nam : All components are listed or exempted.

Page: 13/13

Section 16. Other information

History

Date of printing : 2/24/2021

Date of issue/Date of : 2/24/2021

revision

Date of previous issue : 2/24/2021

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 = Intermediate 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

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.