

SAFETY DATA SHEET

CLEARCOAT MS

AC200MS

Section 1. Identification

Product name : CLEARCOAT MS

Product type : Liquid.

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

Supplier's details : DBNZ Coatings Limited NZ
6 Killarney Lane
Hamilton 3204
New Zealand
T: +64 7847 0944
E: info@dbnz.co.nz

Emergency telephone number (with hours of operation) : +(64)98010034 (Available 24 hrs / 7 days)

e-mail address of person responsible for this SDS : info@dbnz.co.nz

Section 2. Hazards identification

HSNO Classification : FLAMMABLE LIQUIDS - Category 2
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2
SKIN SENSITISATION - Category 1
CARCINOGENICITY - Category 2
REPRODUCTIVE TOXICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
ASPIRATION HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This product is classified as DANGEROUS GOODS for transport, according to the New Zealand Standard NZS 5433: 2012 Transport of Dangerous Goods on Land.

GHS label elements

Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Toxic 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 : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

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SHW-A4-AP-GHS-NZ

Section 2. Hazards identification

Response : Collect spillage. IF exposed or concerned: Get medical advice or attention. 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.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Symbol :



Other hazards which do not result in classification : Please refer to the SDS for additional information. Keep out of reach of children.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Product code : AC200MS

| Ingredient name | % (w/w) | CAS number |
|------------------------------|-----------|-------------|
| n-Butyl Acetate | ≥10 - ≤30 | 123-86-4 |
| Acetone | ≥10 - ≤24 | 67-64-1 |
| HYDROCARBONS, C9, aromatics | ≤10 | 64742-95-6 |
| Methyl n-Amyl Ketone | ≤5 | 110-43-0 |
| trimethylbenzene | ≤3 | 25551-13-7 |
| p-Chlorobenzotrifluoride | ≤3 | 98-56-6 |
| Xylene, mixed isomers | ≤3 | 1330-20-7 |
| 1,3,5-Trimethylbenzene | ≤3 | 108-67-8 |
| 1,2,4-Trimethylbenzene | ≤1.6 | 95-63-6 |
| Ethylbenzene | <1 | 100-41-4 |
| UV Light Absorber | ≤0.3 | 104810-48-2 |
| Pentamethyliperidyl Sebacate | ≤0.16 | 41556-26-7 |

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 necessary first aid measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.

Section 4. First aid measures

- 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

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : May be fatal if swallowed and enters airways.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye irritation.

Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
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** : 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.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. 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, CO₂, water spray (fog) or foam.

Not suitable : Do not use water jet.

Specific hazards arising from the chemical : Highly 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 toxic 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
halogenated compounds
carbonyl halides

Hazchem code : •3YE

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. Collect spillage.

Methods and material for containment and cleaning up

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 sensitization problems 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 handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not swallow. 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. WES-STEL: 200 ppm 15 minutes. |
| Acetone | NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). WES-TWA: 500 ppm 8 hours. WES-TWA: 1185 mg/m ³ 8 hours. WES-STEL: 2375 mg/m ³ 15 minutes. WES-STEL: 1000 ppm 15 minutes. |
| Methyl n-Amyl Ketone | NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). WES-TWA: 50 ppm 8 hours. WES-TWA: 233 mg/m ³ 8 hours. |
| trimethylbenzene | NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Trimethyl benzene] WES-TWA: 25 ppm 8 hours. WES-TWA: 123 mg/m ³ 8 hours. |
| Xylene, mixed isomers | NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Xylene (o-, m-, p-isomers)] |

Section 8. Exposure controls/personal protection

| | |
|------------------------|--|
| 1,3,5-Trimethylbenzene | WES-TWA: 50 ppm 8 hours. WES-TWA: 217 mg/m ³ 8 hours. NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Trimethyl benzene] |
| 1,2,4-Trimethylbenzene | WES-TWA: 25 ppm 8 hours. WES-TWA: 123 mg/m ³ 8 hours. NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Trimethyl benzene] |
| Ethylbenzene | WES-TWA: 25 ppm 8 hours. WES-TWA: 123 mg/m ³ 8 hours. NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). WES-TWA: 100 ppm 8 hours. WES-TWA: 434 mg/m ³ 8 hours. WES-STEL: 543 mg/m ³ 15 minutes. WES-STEL: 125 ppm 15 minutes. |

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. 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.

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.

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.

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.

Section 9. Physical and chemical properties

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

Appearance

| | |
|---|--|
| Physical state | : Liquid. |
| Colour | : Not available. |
| Odour | : Not available. |
| Odour threshold | : Not available. |
| pH | : Not applicable. |
| Melting point/freezing point | : Not available. |
| Boiling point, initial boiling point, and boiling range | : 55°C (131°F) |
| Flash point | : Closed cup: -20°C (-4°F) [Pensky-Martens Closed Cup] |
| Evaporation rate | : 5.6 (butyl acetate = 1) |
| Flammability | : Not available. |
| Lower and upper explosion limit/flammability limit | : Lower: 0.7% Upper: 12.8% |
| Vapour pressure | : 24 kPa (180 mm Hg) |
| Relative vapour density | : 2 [Air = 1] |
| Relative density | : 0.95 |
| Solubility(ies) | : Not available. |

| | |
|--|--|
| Partition coefficient: n-octanol/water | : Not applicable. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C (104°F)): <20.5 mm ² /s (<20.5 cSt) |

Aerosol product

| | |
|--|-------------------|
| Type of aerosol | : Not applicable. |
| Heat of combustion | : 19.988 kJ/g |
| Ignition distance | : Not applicable. |
| Enclosed space ignition - Time equivalent | : Not applicable. |
| Enclosed space ignition - Deflagration density | : Not applicable. |
| Flame height | : Not applicable. |
| Flame duration | : 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 routes of exposure

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : May be fatal if swallowed and enters airways.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
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
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 | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 10768 mg/kg | - |
| Acetone | LD50 Oral | Rat | 5800 mg/kg | - |
| HYDROCARBONS, C9, aromatics | LD50 Oral | Rat | 8400 mg/kg | - |
| Methyl n-Amyl Ketone | LD50 Oral | Rat | 1600 mg/kg | - |
| trimethylbenzene | LD50 Oral | Rat | 8970 mg/kg | - |
| p-Chlorobenzotrifluoride | LD50 Oral | Rat | 13 g/kg | - |
| Xylene, mixed isomers | LC50 Inhalation Gas. | Rat | 6700 ppm | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| 1,3,5-Trimethylbenzene | LC50 Inhalation Vapour | Rat | 24000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| 1,2,4-Trimethylbenzene | LC50 Inhalation Vapour | Rat | 18000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 5 g/kg | - |
| Ethylbenzene | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 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 mg | - |
| Acetone | Eyes - Mild irritant | Human | - | 186300 ppm | - |
| | Eyes - Mild irritant | Rabbit | - | 10 uL | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 20 mg | - |
| | Skin - Mild irritant | Rabbit | - | 395 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |

Section 11. Toxicological information

| | | | | | |
|-----------------------------|--------------------------|--------|---|---------------------|---|
| HYDROCARBONS, C9, aromatics | Eyes - Mild irritant | Rabbit | - | mg 24 hours 100 | - |
| Methyl n-Amyl Ketone | Skin - Mild irritant | Rabbit | - | uL 24 hours 14 | - |
| trimethylbenzene | Eyes - Mild irritant | Rabbit | - | mg 24 hours 500 | - |
| | Skin - Moderate irritant | Rabbit | - | mg 24 hours 500 | - |
| Xylene, mixed isomers | Eyes - Mild irritant | Rabbit | - | mg 87 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 5 | - |
| | Skin - Mild irritant | Rat | - | mg 8 hours 60 uL | - |
| | Skin - Moderate irritant | Rabbit | - | 100 % | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| 1,3,5-Trimethylbenzene | Eyes - Mild irritant | Rabbit | - | mg 24 hours 500 | - |
| | Skin - Moderate irritant | Rabbit | - | mg 24 hours 20 | - |
| Ethylbenzene | Eyes - Severe irritant | Rabbit | - | mg 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 | - |
| | | | | mg | |

Sensitisation

Not available.

Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Inhalation** : No known significant effects or critical hazards.
- 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** : 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

Not available.

Carcinogenicity

Not available.

Mutagenicity

Not available.

Teratogenicity

Not available.

Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|----------------------------------|------------|-------------------|---------------|
| Benzene, dimethyl- mixed isomers | Category 2 | - | - |
| Benzene, 1,2,4-trimethyl- | Category 2 | - | - |
| Benzene, ethyl- | Category 2 | - | - |

Aspiration hazard

| Name |
|--|
| HYDROCARBONS, C9, aromatics trimethylbenzene Xylene, mixed isomers 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Ethylbenzene |

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) |
|--|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| CLEARCOAT MS | 7820.6 | 31866.4 | 209656.4 | 27 | N/A |
| Acetic acid, butyl ester | 10768 | N/A | N/A | 11 | N/A |
| 2-Propanone | 5800 | N/A | N/A | N/A | N/A |
| Aromatic hydrocarbon solvents - medium flashpoint | 8400 | N/A | N/A | N/A | N/A |
| 2-Heptanone | 1600 | N/A | N/A | N/A | N/A |
| trimethylbenzene | 500 | N/A | N/A | 11 | N/A |
| 4-Chlorobenzotrifluoride >10% in a non hazardous diluent | 13000 | N/A | N/A | N/A | N/A |
| Benzene, dimethyl- mixed isomers | 500 | 1100 | 6700 | N/A | N/A |
| Benzene, 1,3,5-trimethyl- | 5000 | N/A | N/A | 24 | N/A |
| Benzene, 1,2,4-trimethyl- | 5000 | N/A | N/A | 18 | N/A |
| Benzene, ethyl- | 3500 | N/A | N/A | 11 | N/A |

Section 12. Ecological information

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

Aquatic and terrestrial toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|--------------------------------------|---|----------|
| n-Butyl Acetate | Acute LC50 32 mg/l Marine water | Crustaceans - Artemia salina | 48 hours |
| Acetone | Acute LC50 18000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute EC50 7200000 µg/l Fresh water | Algae - Selenastrum sp. | 96 hours |
| | Acute LC50 4.42589 ml/L Marine water | Crustaceans - Acartia tonsa - Copepodid | 48 hours |
| | Acute LC50 7460000 µg/l Fresh water | Daphnia - Daphnia cucullata | 48 hours |
| | Acute LC50 5600 ppm Fresh water | Fish - Poecilia reticulata | 96 hours |
| | Chronic NOEC 4.95 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 0.016 ml/L Fresh water | Crustaceans - Daphniidae | 21 days |
| | Chronic NOEC 0.1 ml/L Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |
| | Chronic NOEC 5 µg/l Marine water | Fish - Gasterosteus aculeatus - Larvae | 42 days |
| Methyl n-Amyl Ketone | Acute LC50 131000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| trimethylbenzene | Acute LC50 5600 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours |
| Xylene, mixed isomers | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes | 48 hours |

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Section 12. Ecological information

| | | | |
|------------------------|---|--|--|
| 1,3,5-Trimethylbenzene | Acute LC50 13400 µg/l Fresh water Acute LC50 13000 µg/l Marine water | pugio Fish - Pimephales promelas Crustaceans - Cancer magister - Zoea | 96 hours 48 hours |
| 1,2,4-Trimethylbenzene | Acute LC50 12520 µg/l Fresh water Chronic NOEC 0.4 mg/l Fresh water Acute LC50 4910 µg/l Marine water | Fish - Carassius auratus Daphnia - Daphnia magna Crustaceans - Elasmopus pecteniscus - Adult | 96 hours 21 days 48 hours |
| Ethylbenzene | Acute LC50 7720 µg/l Fresh water Acute EC50 4900 µg/l Marine water Acute EC50 7700 µg/l Marine water Acute EC50 6.53 mg/l Marine water Acute EC50 2.93 mg/l Fresh water Acute LC50 4200 µg/l Fresh water | Fish - Pimephales promelas Algae - Skeletonema costatum Algae - Skeletonema costatum Crustaceans - Artemia sp. - Nauplii Daphnia - Daphnia magna - Neonate Fish - Oncorhynchus mykiss | 96 hours 72 hours 96 hours 48 hours 48 hours 96 hours |

Persistence/degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------|-------------------|------------|------------------|
| n-Butyl Acetate | - | - | Readily |
| Acetone | - | - | Readily |
| HYDROCARBONS, C9, aromatics | - | - | Readily |
| Methyl n-Amyl Ketone | - | - | Readily |
| Xylene, mixed isomers | - | - | Readily |
| Ethylbenzene | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-----------------------------|--------------------|-------------|-----------|
| HYDROCARBONS, C9, aromatics | - | 10 to 2500 | high |
| Xylene, mixed isomers | - | 8.1 to 25.9 | low |
| 1,3,5-Trimethylbenzene | - | 161 | low |
| 1,2,4-Trimethylbenzene | - | 243 | low |

Mobility in soil







Soil/water partition coefficient (K_{oc}) : Not available.

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 sewers.

Section 14. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Marine Pollutant |
|------------------------|-----------|----------------------|---------|-----|--|------------------|
| New Zealand Class | UN1263 | PAINT | 3 | II |  | No. |
| ADG Class | UN1263 | PAINT | 3 | II |  | No. |
| UN Class | UN1263 | PAINT | 3 | II |  | No. |
| ADR/RID Class | UN1263 | PAINT | 3 | II |  | No. |
| IATA Class | UN1263 | PAINT | 3 | II |  | No. |
| IMDG Class | UN1263 | PAINT | 3 | II |  | Not a pollutant. |

Additional information

New Zealand Class : **Hazchem code** •3YE
 ADG Class : **Hazchem code** •3YE
 UN Class : -
 ADR/RID Class : **Special provisions** 640 (C)
 Tunnel code D/E
 IATA Class : -
 IMDG Class : **Emergency schedules** F-E, S-E

PG* : Packing group

NZ NZS 14 Hazchem Code : •3YE

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 the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

HSNO Approval Number : HSR002669
 HSNO Group Standard : Surface coatings and colourants

Section 15. Regulatory information

HSNO Classification : FLAMMABLE LIQUIDS - Category 2
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2
 SKIN SENSITISATION - Category 1
 CARCINOGENICITY - Category 2
 REPRODUCTIVE TOXICITY - Category 2
 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
 ASPIRATION HAZARD - Category 1
 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

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.

Section 16. Other information

History

Date of printing : 29, November, 2022.

Date of issue/Date of revision : 29, November, 2022

Date of previous issue : 17, October, 2022

Version : 7.02

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
 SGG = Segregation Group
 UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be held responsible for SDSs obtained from any other source.

