

SAFETY DATA SHEET

Interzone 954 Part B

Section 1. Identification

Interzone 954 Part B

: GHS product identifier

EAA984

: Product code

| Identified uses | |
|-----------------------------------------------|--------|
| Professional application of coatings and inks | |
| Uses advised against | Reason |
| All Other Uses | |

International Paint Ltd.

: Supplier's details

Stoneygate Lane

Felling

Gateshead

Tyne and Wear

NE10 0JY UK

Tel: +44 (0)191 469 6111

Fax: +44 (0)191 438 3711

+44 (0)191 469 6111 (24H)

: Emergency telephone number (with hours of operation)

+966 55 388 0087

: National advisory body/ Poison Centre (For use only by licensed medical professionals.)

sdsfellinguk@akzonobel.com

: e-mail address of person responsible for this SDS

Section 2. Hazards identification

FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (oral) - Category 4

SKIN CORROSION/IRRITATION - Category 1B

SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2

ACUTE AQUATIC HAZARD - Category 1

LONG-TERM AQUATIC HAZARD - Category 1

: Classification of the substance or mixture

GHS label elements



: Hazard pictograms

Danger

: Signal word

Flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure. (hearing organs)

Very toxic to aquatic life with long lasting effects.

: Hazard statements

Section 2. Hazards identification

Precautionary statements

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

: **Prevention**

Collect spillage. Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

: **Response**

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

: **Storage**

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

: **Disposal**

Wear appropriate respirator when ventilation is inadequate.

: **Supplemental label elements**

None known.

: **Other hazards which do not result in classification**

Section 3. Composition/information on ingredients

Mixture

: **Substance/mixture**

| Classification | CAS number | % by weight | Ingredient name |
|---------------------------------------------------------------------------------------------------------------------------|--------------|-------------|---------------------------------------------------------------------------------------------------------------------|
| Eye Irrit. 2A, H319 | 1257085-86-1 | ≥50 - ≤75 | 2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether |
| Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | | | |
| Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | 71-36-3 | ≥5 - ≤14 | butan-1-ol |
| Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Aquatic Chronic 3, H412 | 2579-20-6 | ≥10 - ≤15 | 1,3-Cyclohexanedimethanamine |
| Acute Tox. 4, H302 Acute Tox. 4, H332 | 100-51-6 | ≥5 - ≤10 | benzyl alcohol |
| Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 | 1330-20-7 | ≤5 | xylene |

Section 3. Composition/information on ingredients

| | | | |
|---------------------------------------------------------------------------------------------------|------------|----|-----------------------------------------|
| STOT SE 3, H335 Asp. Tox. 1, H304 | | | |
| Ox. Sol. 3, H272 Eye Irrit. 2A, H319 | 13477-34-4 | ≤3 | Nitric acid, calcium salt, tetrahydrate |
| Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 | 100-41-4 | ≤3 | ethylbenzene |

There are no 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

Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. **: Eye contact**

Get medical attention immediately. Call a poison center or physician. 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. Seek medical attention. 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. **: Inhalation**

Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. **: Skin contact**

Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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. **: Ingestion**

Most important symptoms/effects, acute and delayed

Potential acute health effects

Causes serious eye damage. **: Eye contact**

May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. **: Inhalation**

Causes severe burns. May cause an allergic skin reaction. **: Skin contact**

Section 4. First aid measures

Harmful if swallowed. May cause burns to mouth, throat and stomach.

: Ingestion

Over-exposure signs/symptoms

Adverse symptoms may include the following:

pain
watering
redness

: Eye contact

Adverse symptoms may include the following:

headache
drowsiness/fatigue
dizziness/vertigo
muscle weakness
unconsciousness

: Inhalation

Adverse symptoms may include the following:

pain or irritation
redness
blistering may occur

: Skin contact

Adverse symptoms may include the following:

stomach pains

: Ingestion

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

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.

: Notes to physician

No specific treatment.

: Specific treatments

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.

: Protection of first-aiders

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

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

: Suitable extinguishing media

Do not use water jet.

: Unsuitable extinguishing media

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. This material is very 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.

: Specific hazards arising from the chemical

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

: Hazardous thermal decomposition products

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 actions 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.

: Special protective equipment for fire-fighters

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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

: **For non-emergency personnel**

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".

: **For emergency responders**

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.

: **Environmental precautions**

Methods and material for containment and cleaning up

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.

: **Small 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.

: **Large spill**

Section 7. Handling and storage

Precautions for safe handling

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. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.

: **Protective measures**

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.

: **Advice on general occupational hygiene**

Section 7. Handling and storage

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. Vapours are heavier than air and may spread along floors. Separate from oxidizing 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.

: **Conditions for safe storage, including any incompatibilities**

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Exposure limits | Ingredient name |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| ACGIH TLV (United States, 3/2017). TWA: 20 ppm 8 hours. | butan-1-ol |
| ACGIH TLV (United States, 3/2017). STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. | xylene |
| ACGIH TLV (United States, 3/2017). TWA: 20 ppm 8 hours. | ethylbenzene |

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.

: **Appropriate engineering 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.

: **Environmental exposure controls**

Individual protection 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.

: **Hygiene measures**

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. Use eye protection according to EN 166, designed to protect against liquid splashes. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

: **Eye/face protection**

Skin protection

Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms. Recommended: Viton® or Nitrile gloves. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the

: **Hand protection**

Section 8. Exposure controls/personal protection

particular conditions of use, as included in the user's risk assessment. **NOTICE:** The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

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. EN ISO 13688 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.

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.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary according to EN529. 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: half-face mask APF4

: **Body protection**

: **Other skin protection**

: **Respiratory protection**

Section 9. Physical and chemical properties

Appearance

Liquid.

Colourless.

Amine-like.

Not available.

Not applicable.

Not available.

Lowest known value: 119°C (246.2°F) (butan-1-ol).

Closed cup: 32°C (89.6°F)

Not available.

Not available.

Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

Not available.

Not available.

0.99

Insoluble in the following materials: cold water.

Not available.

Not available.

Not available.

Kinematic (room temperature): 101 mm²/s (101 cSt)

: **Physical state**

: **Colour**

: **Odour**

: **Odour threshold**

: **pH**

: **Melting point**

: **Boiling point**

: **Flash point**

: **Evaporation rate**

: **Flammability (solid, gas)**

: **Lower and upper explosive (flammable) limits**

: **Vapour pressure**

: **Vapour density**

: **Relative density**

: **Solubility**

: **Partition coefficient: n-octanol/water**

: **Auto-ignition temperature**

: **Decomposition temperature**

: **Viscosity**

Section 10. Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients.

: **Reactivity**

The product is stable.

: **Chemical stability**

Under normal conditions of storage and use, hazardous reactions will not occur.

: **Possibility of hazardous reactions**

Section 10. Stability and reactivity

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, : **Conditions to avoid**
brazing, solder, drill, grind or expose containers to heat or sources of ignition.

Reactive or incompatible with the following materials: : **Incompatible materials**
oxidizing materials

Under normal conditions of storage and use, hazardous decomposition products : **Hazardous decomposition**
should not be produced. **products**

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Exposure | Dose | Species | Result | Product/ingredient name |
|----------|-------------------------|---------|------------------------|------------------------------------------------------------|
| 4 hours | 24000 mg/m ³ | Rat | LC50 Inhalation Vapour | butan-1-ol |
| - | 3400 mg/kg | Rabbit | LD50 Dermal | 1, 3-Cyclohexanedimethanamine benzyl alcohol |
| - | 880 mg/kg | Rat | LD50 Oral | |
| 4 hours | >4178 mg/l | Rat | LC50 Inhalation Vapour | |
| - | 2000 mg/kg | Rabbit | LD50 Dermal | xylene |
| - | 1620 mg/kg | Rat | LD50 Oral | |
| 4 hours | 5000 ppm | Rat | LC50 Inhalation Gas. | |
| - | 4300 mg/kg | Rat | LD50 Oral | Nitric acid, calcium salt, tetrahydrate ethylbenzene |
| - | 3900 mg/kg | Rat | LD50 Oral | |
| - | >5000 mg/kg | Rabbit | LD50 Dermal | |
| - | 3500 mg/kg | Rat | LD50 Oral | |

Irritation/Corrosion

| Observation | Exposure | Score | Species | Result | Product/ingredient name |
|-------------|-------------------------|-------|---------|--------------------------|--------------------------------------------|
| - | 24 hours 2 milligrams | - | Rabbit | Eyes - Severe irritant | butan-1-ol |
| - | 0.005 Milliliters | - | Rabbit | Eyes - Severe irritant | |
| - | 24 hours 20 milligrams | - | Rabbit | Skin - Moderate irritant | |
| - | 48 hours 16 milligrams | - | Man | Skin - Mild irritant | benzyl alcohol |
| - | 100 Percent | - | Pig | Skin - Moderate irritant | |
| - | 24 hours 100 milligrams | - | Rabbit | Skin - Moderate irritant | |
| - | 87 milligrams | - | Rabbit | Eyes - Mild irritant | xylene |
| - | 24 hours 5 milligrams | - | Rabbit | Eyes - Severe irritant | |
| - | 8 hours 60 microliters | - | Rat | Skin - Mild irritant | |
| - | 24 hours 500 milligrams | - | Rabbit | Skin - Moderate irritant | |
| - | 100 Percent | - | Rabbit | Skin - Moderate irritant | Nitric acid, calcium salt, tetrahydrate |
| - | 24 hours 500 milligrams | - | Rabbit | Eyes - Mild irritant | |
| - | 24 hours 500 milligrams | - | Rabbit | Skin - Mild irritant | |
| - | 500 milligrams | - | Rabbit | Eyes - Severe irritant | ethylbenzene |
| - | 24 hours 15 milligrams | - | Rabbit | Skin - Mild irritant | |

Section 11. Toxicological information

Sensitisation

| Result | Species | Route of exposure | Product/ingredient name |
|-------------|---------|-------------------|---------------------------------------------------------------------------------------------------------------------|
| Sensitising | Mouse | skin | 2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Target organs | Route of exposure | Category | Name |
|---------------------------------------------------|-------------------|------------|------------|
| Respiratory tract irritation and Narcotic effects | Not applicable. | Category 3 | butan-1-ol |
| Respiratory tract irritation | Not applicable. | Category 3 | xylene |

Specific target organ toxicity (repeated exposure)

| Target organs | Route of exposure | Category | Name |
|----------------|-------------------|------------|--------------|
| hearing organs | Not determined | Category 2 | ethylbenzene |

Aspiration hazard

| Result | Name |
|--------------------------------|--------------|
| ASPIRATION HAZARD - Category 1 | xylene |
| ASPIRATION HAZARD - Category 1 | ethylbenzene |

Not available.

: Information on likely routes of exposure

Potential acute health effects

Causes serious eye damage.

: Eye contact

May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

: Inhalation

Causes severe burns. May cause an allergic skin reaction.

: Skin contact

Harmful if swallowed. May cause burns to mouth, throat and stomach.

: Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Adverse symptoms may include the following:

pain
watering
redness

: Eye contact

Section 11. Toxicological information

Adverse symptoms may include the following:

headache
drowsiness/fatigue
dizziness/vertigo
muscle weakness
unconsciousness

: Inhalation

Adverse symptoms may include the following:

pain or irritation
redness
blistering may occur

: Skin contact

Adverse symptoms may include the following:

stomach pains

: Ingestion

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

Short term exposure

Not available.

: Potential immediate effects

Not available.

: Potential delayed effects

Long term exposure

Not available.

: Potential immediate effects

Not available.

: Potential delayed effects

Potential chronic health effects

Not available.

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.

: General

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

Numerical measures of toxicity

Acute toxicity estimates

| ATE value | Route |
|--------------|----------------------|
| 1923.7 mg/kg | Oral |
| 7132.1 mg/kg | Dermal |
| 111774.3 ppm | Inhalation (gases) |
| 120.1 mg/l | Inhalation (vapours) |

Section 12. Ecological information

Toxicity

Section 12. Ecological information

| Exposure | Species | Result | Product/ingredient name |
|----------|------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 72 hours | Algae - Pseudokirchneriella subcapitata | Acute EC50 0.029 mg/l | 2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether |
| 48 hours | Daphnia - Daphnia magna | Acute EC50 0.9 mg/l | |
| 96 hours | Fish - Oncorhynchus mykiss | Acute LC50 28 mg/l | |
| 72 hours | Algae - Pseudokirchneriella subcapitata | Chronic NOEC 0.0023 mg/l | butan-1-ol |
| 48 hours | Daphnia - Daphnia magna | Chronic NOEC 0.32 mg/l | |
| 96 hours | Fish - Oncorhynchus mykiss | Chronic NOEC 3.2 mg/l | |
| 48 hours | Daphnia - Daphnia magna | Acute EC50 1983000 to 2072000 µg/l Fresh water | xylene |
| 96 hours | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | Acute LC50 1910000 µg/l Fresh water | |
| 48 hours | Crustaceans - Palaemonetes pugio | Acute LC50 8500 µg/l Marine water | |
| 96 hours | Fish - Pimephales promelas | Acute LC50 13400 µg/l Fresh water | |

Persistence and degradability

| Inoculum | Dose | Result | Test | Product/ingredient name |
|----------|------|------------------------------|----------|---------------------------------------------------------------------------------------------------------------------|
| - | - | 16 % - Not readily - 28 days | 41102286 | 2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether |

| Biodegradability | Photolysis | Aquatic half-life | Product/ingredient name |
|------------------|------------|-------------------|---------------------------------------------------------------------------------------------------------------------|
| Not readily | - | - | 2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether |

Bioaccumulative potential

| Potential | BCF | LogP _{ow} | Product/ingredient name |
|-----------|-------------|--------------------|---------------------------------------------------------------------------------------------------------------------|
| low | - | 2.56 | 2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether |
| low | - | 1 | |
| low | - | 0.783 | |
| low | - | 0.87 | butan-1-ol |
| low | 8.1 to 25.9 | 3.12 | 1, 3-Cyclohexanedimethanamine |
| low | - | 3.6 | benzyl alcohol |
| low | - | | xylene |
| low | - | | ethylbenzene |

Mobility in soil

Not available.

: Soil/water partition coefficient (K_{oc})

No known significant effects or critical hazards.

: Other adverse effects








Section 13. Disposal considerations

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.

: Disposal methods

Section 14. Transport information

| IATA | IMDG | UN | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| UN3470 | UN3470 | UN3470 | UN number |
| PAINT, CORROSIVE, FLAMMABLE | PAINT, CORROSIVE, FLAMMABLE. Marine pollutant (2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether) | PAINT, CORROSIVE, FLAMMABLE | UN proper shipping name |
| 8 (3)   | 8 (3)    | 8 (3)   | Transport hazard class(es) |
| II | II | II | Packing group |
| No. | Yes. | No. | Environmental hazards |
| The environmentally hazardous substance mark may appear if required by other transportation regulations. | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. | - | Additional information |

Not applicable.

: IMDG Code Segregation group

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.

: Special precautions for user

Not available.

: Transport in bulk according to Annex II of Marpol and the IBC Code

Section 15. Regulatory information

No known specific national and/or regional regulations applicable to this product (including its ingredients).

: **Safety, health and environmental regulations specific for the product**

Section 16. Other information

Justification

| Justification | Classification |
|-----------------------|----------------------------------|
| On basis of test data | Flam. Liq. 3, H226 |
| Calculation method | Acute Tox. 4, H302 |
| Calculation method | Skin Corr. 1B, H314 |
| Calculation method | Skin Sens. 1, H317 |
| Calculation method | STOT RE 2, H373 (hearing organs) |
| Calculation method | Aquatic Acute 1, H400 |
| Calculation method | Aquatic Chronic 1, H410 |

History

07/06/2021

: **Date of printing**

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31/05/2019

: **Date of previous issue**

5

: **Version**

ATE = Acute Toxicity Estimate

: **Key to abbreviations**

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)

UN = United Nations

Not available.

: **References**

Indicates information that has changed from previously issued version.

Notice to reader

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Section 16. Other information