

# Black Zinc Aerosol CRC Industries (CRC Industries New Zealand)

CRC Industries (CRC Industries New Zealand Chemwatch: 4835-76

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

### Chemwatch Hazard Alert Code: 4

Issue Date: **10/03/2023**Print Date: **07/08/2023**S.GHS.NZL.EN

### SECTION 1 Identification of the substance / mixture and of the company / undertaking

### **Product Identifier**

Version No: 14.1

| Product name                  | Black Zinc Aerosol   |
|-------------------------------|--|
| Chemical Name                 | Not Applicable   |
| Synonyms                      | 2089, 1010035 -Black Zinc 400ml; 2129, 1011573 - Black Zinc 500ml; 1752469 - Black Zinc Race Series 400g; 1753473 - Black Zinc Max |
| Proper shipping name          | AEROSOLS   |
| Chemical formula              | Not Applicable   |
| Other means of identification | Not Available  |

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

| Relevant identified uses | Anticorrosive paint.  |
|--------------------------|---|
| Relevant Identined uses  | Application is by spray atomisation from a hand held aerosol pack |

### Details of the manufacturer or supplier of the safety data sheet

| Registered company name | CRC Industries (CRC Industries New Zealand)         | CRC Industries                            |
|-------------------------|---|---|
| Address                 | 10 Highbrook Drive East Tamaki Auckland New Zealand | PO Box 199 Castle Hill NSW 2154 Australia |
| Telephone               | +64 9 272 2700                                      | +61 2 9634 2088                           |
| Fax                     | +64 9 274 9696                                      | 02 9680 4914                              |
| Website                 | www.crc.co.nz                                       | http://www.crcindu.com.au                 |
| Email                   | customerservices@crc.co.nz                          | technical.au@crcind.com                   |

### **Emergency telephone number**

| Association / Organisation        | CRC Industries (CRC Industries New Zealand)     | CRC Industries | CHEMWATCH EMERGENCY<br>RESPONSE (24/7) |
|-----------------------------------|---|----------------|--|
| Emergency telephone numbers       | NZ Poisons Centre 0800 POISON<br>(0800 764 766) | 131 126        | +64 800 700 112                        |
| Other emergency telephone numbers | 111 (NZ Emergency Services)                     | Not Available  | +61 3 9573 3188                        |

Once connected and if the message is not in your preferred language then please dial  ${\bf 01}$ 

### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

| Classification [1]                              | Aerosols Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2 |
|---|--|
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No<br>1272/2008 - Annex VI  |
| Determined by Chemwatch using GHS/HSNO criteria | 2.1.2A, 6.1D (oral), 6.3A, 6.4A, 6.8B, 6.9B  |

### Label elements

### Hazard pictogram(s)







Signal word

Danger

### Hazard statement(s)

| H222+H229 | Extremely flammable aerosol. Pressurized container: may burst if heated. |
|-----------|--|
| H302      | Harmful if swallowed.  |
| H315      | Causes skin irritation.  |
| H319      | Causes serious eye irritation.   |
| H336      | May cause drowsiness or dizziness.                                       |
| H361      | Suspected of damaging fertility or the unborn child.                     |
| H373      | May cause damage to organs through prolonged or repeated exposure.       |

### Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use.  |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source.  |
| P251 | Do not pierce or burn, even after use.   |

### Precautionary statement(s) Response

| P308+P313      | IF exposed or concerned: Get medical advice/ attention.  |
|----------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.  |

### Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.             |

### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

### **Substances**

See section below for composition of Mixtures

### Mixtures

| CAS No      | %[weight]  | Name                   |  |
|-------------|--|------------------------|--|
| 1330-20-7   | 10-25  | xylene                 |  |
| 108-88-3    | 10-25  | toluene                |  |
| 67-64-1     | 10-25  | acetone                |  |
| 68476-85-7. | 25-35  | hydrocarbon propellant |  |
| Legend:     | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available |                        |  |

### **SECTION 4 First aid measures**

### **Description of first aid measures**

**Eye Contact** 

If aerosols come in contact with the eyes

- Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Transport to hospital or doctor without delay.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

| Skin Contact | If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.  |
|--------------|---|
| Inhalation   | If aerosols, fumes or combustion products are inhaled:  Remove to fresh air.  Lay patient down. Keep warm and rested.  Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.  If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.  Transport to hospital, or doctor.   |
| Ingestion    | <ul> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>Not considered a normal route of entry.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul> |

### Indication of any immediate medical attention and special treatment needed

| Treat symptomatically. |  |
|------------------------|--|
| for simple ketones:    |  |
| BASIC TREATMENT        |  |

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- ► Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5mL/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.
- Give activated charcoal.

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### ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Consider intubation at first sign of upper airway obstruction resulting from oedema.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

### EMERGENCY DEPARTMENT

\_\_\_\_\_

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L.

### EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

Following acute or short term repeated exposures to toluene:

- Toluene is absorbed across the alveolar barrier, the blood/air mixture being 11.2/15.6 (at 37 degrees C.) The concentration of toluene, in expired breath, is of the order of 18 ppm following sustained exposure to 100 ppm. The tissue/blood proportion is 1/3 except in adipose where the proportion is 8/10.
- Metabolism by microsomal mono-oxygenation, results in the production of hippuric acid. This may be detected in the urine in amounts between 0.5 and 2.5 g/24 hr which represents, on average 0.8 gm/gm of creatinine. The biological half-life of hippuric acid is in the order of 1-2 hours.
- Primary threat to life from ingestion and/or inhalation is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (eg cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 <50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial damage has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenaline) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled

cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

Lavage is indicated in patients who require decontamination; ensure use.

### **BIOLOGICAL EXPOSURE INDEX - BEI**

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

DeterminantIndexSampling TimeCommentso-Cresol in urine0.5 mg/LEnd of shiftBHippuric acid in urine1.6 g/g creatinineEnd of shiftB, NS

Toluene in blood 0.05 mg/L Prior to last shift of workweek

NS: Non-specific determinant; also observed after exposure to other material

B: Background levels occur in specimens collected from subjects NOT exposed

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- ▶ Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

**BIOLOGICAL EXPOSURE INDEX - BEI** 

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Index Sampling Time Comments

Methylhippu-ric acids in urine 1.5 gm/gm creatinine End of shift 2 mg/min Last 4 hrs of shift

### **SECTION 5 Firefighting measures**

### **Extinguishing media**

SMALL FIRE:

Water spray, dry chemical or CO2

### LARGE FIRE:

Water spray or fog.

### Special hazards arising from the substrate or mixture

| Fire | Incompatibility |
|------|-----------------|
|------|-----------------|

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may
result

### Advice for firefighters

# Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. | May be violently or explosively reactive. | Wear breathing apparatus plus protective gloves. | Prevent, by any means available, spillage from entering drains or water course. | Liquid and vapour are highly flammable. | Severe fire hazard when exposed to heat or flame. | Vapour forms an explosive mixture with air. | Severe explosion hazard, in the form of vapour, when exposed to flame or spark. | Combustion products include: | carbon dioxide (CO2) | other pyrolysis products typical of burning organic material. | Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.

### **SECTION 6 Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

| Minor Spills | <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> </ul> |
|--------------|---|
| Major Spills | <ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>                          |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

### Precautions for safe handling

| Safe handling     | <ul> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>  |
|-------------------|---|
| Other information | <ul> <li>Store below 38 deg. C.</li> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Keep containers securely sealed.</li> </ul> |

### Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>  |
|-------------------------|--|
| Storage incompatibility | <ul> <li>Avoid reaction with oxidising agents</li> <li>Avoid strong acids, bases.</li> </ul> |

### SECTION 8 Exposure controls / personal protection

### **Control parameters**

### Occupational Exposure Limits (OEL)

### INGREDIENT DATA

| Source  | Ingredient             | Material name                 | TWA                         | STEL                     | Peak             | Notes  |
|---|------------------------|-------------------------------|-----------------------------|--------------------------|------------------|--|
| New Zealand Workplace<br>Exposure Standards (WES) | xylene                 | Dimethylbenzene               | 50 ppm /<br>217 mg/m3       | Not Available            | Not<br>Available | Not Available  |
| New Zealand Workplace<br>Exposure Standards (WES) | toluene                | Toluene (Toluol)              | 20 ppm / 75<br>mg/m3        | 377 mg/m3 /<br>100 ppm   | Not<br>Available | (skin) - Skin absorption oto -<br>Ototoxin (bio) - Exposure can also<br>be estimated by biological<br>monitoring |
| New Zealand Workplace<br>Exposure Standards (WES) | acetone                | Acetone                       | 500 ppm /<br>1185<br>mg/m3  | 2375 mg/m3<br>/ 1000 ppm | Not<br>Available | (bio) - Exposure can also be estimated by biological monitoring  |
| New Zealand Workplace<br>Exposure Standards (WES) | hydrocarbon propellant | LPG (Liquefied petroleum gas) | 1000 ppm /<br>1800<br>mg/m3 | Not Available            | Not<br>Available | Not Available  |

### Emergency Limits

| Ingredient             | TEEL-1        | TEEL-2        | TEEL-3        |
|------------------------|---------------|---------------|---------------|
| xylene                 | Not Available | Not Available | Not Available |
| toluene                | Not Available | Not Available | Not Available |
| acetone                | Not Available | Not Available | Not Available |
| hydrocarbon propellant | 65,000 ppm    | 2.30E+05 ppm  | 4.00E+05 ppm  |

| Ingredient             | Original IDLH | Revised IDLH  |
|------------------------|---------------|---------------|
| xylene                 | 900 ppm       | Not Available |
| toluene                | 500 ppm       | Not Available |
| acetone                | 2,500 ppm     | Not Available |
| hydrocarbon propellant | 2,000 ppm     | Not Available |

### **Exposure controls**

## Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

### Individual protection measures, such as personal protective equipment







### Eye and face protection

- Safety glasses with side shields.
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

### Skin protection

See Hand protection below

### Hands/feet protection

- ▶ No special equipment needed when handling small quantities.
- ► OTHERWISE:
- ► For potentially moderate exposures:
- Wear general protective gloves, eg. light weight rubber gloves.
- ► For potentially heavy exposures:
- Wear chemical protective gloves, eg. PVC. and safety footwear.

### **Body protection**

See Other protection below

No special equipment needed when handling small quantities.

### OTHERWISE:

- Overalls.
- Skin cleansing cream.
- Other protection
- ► Evewash unit.
- The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton.
- ▶ Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost.

BRETHERICK: Handbook of Reactive Chemical Hazards.

### Recommended material(s)

### **GLOVE SELECTION INDEX**

Glove selection is based on a modified presentation of the:

### "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Black Zinc Aerosol

| Material          | СРІ |
|-------------------|-----|
| PE/EVAL/PE        | A   |
| TEFLON            | В   |
| BUTYL             | С   |
| BUTYL/NEOPRENE    | С   |
| CPE               | С   |
| HYPALON           | С   |
| NAT+NEOPR+NITRILE | С   |
| NATURAL RUBBER    | С   |
| NATURAL+NEOPRENE  | С   |
| NEOPRENE          | С   |
| NEOPRENE/NATURAL  | С   |
| NITRILE           | С   |
| NITRILE+PVC       | С   |
| PVA               | С   |
| PVC               | С   |
| PVDC/PE/PVDC      | С   |
| SARANEX-23        | С   |
| SARANEX-23 2-PLY  | С   |
| VITON             | С   |
| VITON/CHLOROBUTYL | С   |

### Respiratory protection

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum<br>Protection Factor | Half-Face<br>Respirator | Full-Face<br>Respirator | Powered Air<br>Respirator |
|---------------------------------------|-------------------------|-------------------------|---------------------------|
| up to 10 x ES                         | AX-AUS                  | -                       | AX-PAPR-AUS /<br>Class 1  |
| up to 50 x ES                         | -                       | AX-AUS /<br>Class 1     | -                         |
| up to 100 x ES                        | -                       | AX-2                    | AX-PAPR-2 ^               |

### ^ - Full-face

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

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

VITON/NEOPRENE C

- \* CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

### **SECTION 9 Physical and chemical properties**

### Information on basic physical and chemical properties

| Appearance                                   | Black highly flammable liquid; not miscible with water. Supplied as an aerosol pack. Contents under PRESSURI | E. Contains highly flammable hydronic   | rocarbon propellant. |
|--|--|---|----------------------|
| Physical state                               | Liquid   | Relative density (Water = 1)            | Not Available        |
| Odour  | Not Available  | Partition coefficient n-octanol / water | Not Available        |
| Odour threshold                              | Not Available  | Auto-ignition temperature (°C)          | Not Available        |
| pH (as supplied)                             | Not Applicable   | Decomposition temperature (°C)          | Not Available        |
| Melting point / freezing point (°C)          | Not Available  | Viscosity (cSt)                         | Not Available        |
| Initial boiling point and boiling range (°C) | Not Available  | Molecular weight (g/mol)                | Not Applicable       |
| Flash point (°C)                             | -81 (propellant)   | Taste                                   | Not Available        |
| Evaporation rate                             | Not Available  | Explosive properties                    | Not Available        |
| Flammability                                 | HIGHLY FLAMMABLE.  | Oxidising properties                    | Not Available        |
| Upper Explosive Limit (%)                    | Not Available  | Surface Tension (dyn/cm or mN/m)        | Not Available        |
| Lower Explosive Limit (%)                    | Not Available  | Volatile Component (%vol)               | Not Available        |
| Vapour pressure (kPa)                        | Not Available  | Gas group                               | Not Available        |
| Solubility in water                          | Immiscible   | pH as a solution (1%)                   | Not Applicable       |
| Vapour density (Air = 1)                     | Not Available  | VOC g/L                                 | Not Available        |

### **SECTION 10 Stability and reactivity**

| Reactivity                         | See section 7  |
|------------------------------------|--|
| Chemical stability                 | <ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| Possibility of hazardous reactions | See section 7  |
| Conditions to avoid                | See section 7  |
| Incompatible materials             | See section 7  |
| Hazardous decomposition products   | See section 5  |

### **SECTION 11 Toxicological information**

### Information on toxicological effects

Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.

### Inhaled

Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.

Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings

|              | may result in respiratory depression and may be fatal.  Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.  WARNING:Intentional misuse by concentrating/inhaling contents may be lethal.  Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers. Exposure to hydrocarbons may result in irregularity of heart beat. Symptoms of moderate poisoning may include dizziness, headache, nausea.   |
|--------------|---|
| Ingestion    | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.  Not normally a hazard due to physical form of product.  Considered an unlikely route of entry in commercial/industrial environments Ingestion may result in nausea, abdominal irritation, pain and vomiting  |
| Skin Contact | Skin contact with the material may be harmful; systemic effects may result following absorption.  The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.  Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.  Spray mist may produce discomfort  Open cuts, abraded or irritated skin should not be exposed to this material   |
| Еуе          | Not considered to be a risk because of the extreme volatility of the gas.  There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.  |
| Chronic      | Harmful: danger of serious damage to health by prolonged exposure through inhalation.  This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.  Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother.  Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.  There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.  Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  Intentional abuse (glue sniffing) or occupational exposure to toluene can result in chronic habituation. Chronic abuse has caused inco-ordination, tremors of the extremeties (due to widespread cerebrum withering), headache, abnormal speech, temporary memory loss, convulsions, coma, drowsiness, reduced colour perception, blindness, nystagmus (rapid, involuntary eye movements), hearing loss leading to deafness and mild dementia.  Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.  Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS] |

| Black Zinc Aerosol | TOXICITY  | IRRITATION   |
|--------------------|---|--|
| Black Zinc Aerosol | Not Available                                     | Not Available  |
|                    | TOXICITY  | IRRITATION   |
|                    | Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>  | Eye (human): 200 ppm irritant                              |
|                    | Inhalation(Rat) LC50: 5000 ppm4h <sup>[2]</sup>   | Eye (rabbit): 5 mg/24h SEVERE                              |
| xylene             | Oral (Mouse) LD50; 2119 mg/kg <sup>[2]</sup>      | Eye (rabbit): 87 mg mild                                   |
|                    |   | Eye: adverse effect observed (irritating) <sup>[1]</sup>   |
|                    |   | Skin (rabbit):500 mg/24h moderate                          |
|                    |   | Skin: adverse effect observed (irritating) <sup>[1]</sup>  |
|                    | TOXICITY  | IRRITATION   |
|                    | Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup>  | Eye (rabbit): 2mg/24h - SEVERE                             |
|                    | Inhalation(Rat) LC50: >13350 ppm4h <sup>[2]</sup> | Eye (rabbit):0.87 mg - mild                                |
|                    | Oral (Rat) LD50: 636 mg/kg <sup>[2]</sup>         | Eye (rabbit):100 mg/30sec - mild                           |
| toluene            |   | Eye: adverse effect observed (irritating) <sup>[1]</sup>   |
|                    |   | Skin (rabbit):20 mg/24h-moderate                           |
|                    |   | Skin (rabbit):500 mg - moderate                            |
|                    |   | Skin: adverse effect observed (irritating) <sup>[1]</sup>  |
|                    |   | Skin: no adverse effect observed (not irritating) $^{[1]}$ |
|                    | TOXICITY  | IRRITATION   |
|                    | Dermal (rabbit) LD50: 20000 mg/kg <sup>[2]</sup>  | Eye (human): 500 ppm - irritant                            |
| acetone            | Inhalation(Mouse) LC50; 44 mg/L4h <sup>[2]</sup>  | Eye (rabbit): 20mg/24hr -moderate                          |
|                    | Oral (Rat) LD50: 5800 mg/kg <sup>[2]</sup>        | Eye (rabbit): 3.95 mg - SEVERE                             |
|                    |   | Eye: adverse effect observed (irritating) <sup>[1]</sup>   |

|                        |  | Skin (rabbit): 500 mg/24hr - mild                                |  |
|------------------------|--|--|--|
|                        |  | Skin (rabbit):395mg (open) - mild                                |  |
|                        |  | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |  |
| hydrocarbon propellant | TOXICITY   | IRRITATION   |  |
|                        | Inhalation(Rat) LC50: 658 mg/l4h <sup>[2]</sup>  | Not Available  |  |
| Legend:                | Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.     Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |  |  |

| XYLENE                            | Reproductive effector in rats  The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.  |                          |          |
|-----------------------------------|---|--------------------------|----------|
| TOLUENE                           | For toluene: Acute toxicity: Humans exposed to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis (sleepiness) and death. When inhaled or swallowed, toluene can cause severe central nervous system depression, and in large doses has a narcotic effect. 60mL has caused death. Death of heart muscle fibres, liver swelling, congestion and bleeding of the lungs and kidney injury were all found on autopsy. Exposure to inhalation at a concentration of 600 parts per million for 8 hours resulted in the same and more serious symptoms including euphoria (a feeling of well-being), dilated pupils, convulsions and nausea. |                          |          |
| ACETONE                           | For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye. Animal testing shows acetone may cause anaemia. Studies in humans have shown that exposure to acetone at a level of 2375 mg/m3 does not negatively impact an individual's emotional regulation, behaviour, or learning ability.   |                          |          |
| HYDROCARBON<br>PROPELLANT         | No significant acute toxicological data identified in literature search. inhalation of the gas  |                          |          |
| XYLENE & TOLUENE & ACETONE        | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.  |                          |          |
| Acute Toxicity                    | ✓   | Carcinogenicity          | ×        |
| Skin Irritation/Corrosion         | <b>✓</b>  | Reproductivity           | <b>✓</b> |
| Serious Eye<br>Damage/Irritation  | <b>~</b>  | STOT - Single Exposure   | •        |
| Respiratory or Skin sensitisation | ×   | STOT - Repeated Exposure | <b>~</b> |
| Mutagenicity                      | ×   | Aspiration Hazard        | ×        |

Legend: X -

🗶 – Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

### **SECTION 12 Ecological information**

### **Toxicity**

|                    | Endpoint         | Test Duration (hr) | Species                       | Value            | Source         |
|--------------------|------------------|--------------------|-------------------------------|------------------|----------------|
| Black Zinc Aerosol | Not<br>Available | Not Available      | Not Available                 | Not<br>Available | Not<br>Availab |
|                    | Endpoint         | Test Duration (hr) | Species                       | Value            | Sour           |
|                    | EC50             | 72h                | Algae or other aquatic plants | 4.6mg/l          | 2              |
| xylene             | EC50             | 48h                | Crustacea                     | 1.8mg/l          | 2              |
|                    | LC50             | 96h                | Fish                          | 2.6mg/l          | 2              |
|                    | NOEC(ECx)        | 73h                | Algae or other aquatic plants | 0.44mg/l         | 2              |
|                    | Endpoint         | Test Duration (hr) | Species                       | Value            | Sour           |
|                    | EC50             | 96h                | Algae or other aquatic plants | >376.71mg/L      | 4              |
|                    | EC50             | 72h                | Algae or other aquatic plants | 12.5mg/l         | 4              |
| toluene            | EC50             | 48h                | Crustacea                     | 3.78mg/L         | 5              |
|                    | LC50             | 96h                | Fish                          | 5-35mg/l         | 4              |
|                    | NOEC(ECx)        | 168h               | Crustacea                     | 0.74mg/L         | 5              |

|                        | Endpoint  | Test Duration (hr) | Sp  | ecies                         | Value   |            | Source |
|------------------------|-----------|--------------------|-----|-------------------------------|---------|------------|--------|
|                        | LC50      | 96h                | Fis | sh                            | 3744.6- | 5000.7mg/L | 4      |
| ,                      | NOEC(ECx) | 12h                | Fis | sh                            | 0.001m  | g/L        | 4      |
| acetone                | EC50      | 72h                | Alg | gae or other aquatic plants   | 5600-10 | 0000mg/l   | 4      |
|                        | EC50      | 48h                | Cri | ustacea                       | 6098.4r | ng/L       | 5      |
|                        | EC50      | 96h                | Alg | gae or other aquatic plants   | 9.873-2 | 7.684mg/l  | 4      |
|                        | Endpoint  | Test Duration (hr) |     | Species                       |         | Value      | Source |
|                        | EC50      | 96h                |     | Algae or other aquatic plants |         | 7.71mg/l   | 2      |
| hydrocarbon propellant | LC50      | 96h                |     | Fish                          |         | 24.11mg/l  | 2      |
|                        |           |                    |     |                               |         |            |        |
|                        | EC50(ECx) | 96h                |     | Algae or other aquatic plants |         | 7.71mg/l   | 2      |

Harmful to aquatic organisms.

DO NOT discharge into sewer or waterways.

### Persistence and degradability

| Ingredient | Persistence: Water/Soil     | Persistence: Air                 |
|------------|-----------------------------|----------------------------------|
| xylene     | HIGH (Half-life = 360 days) | LOW (Half-life = 1.83 days)      |
| toluene    | LOW (Half-life = 28 days)   | LOW (Half-life = 4.33 days)      |
| acetone    | LOW (Half-life = 14 days)   | MEDIUM (Half-life = 116.25 days) |

### **Bioaccumulative potential**

| Ingredient | Bioaccumulation    |
|------------|--------------------|
| xylene     | MEDIUM (BCF = 740) |
| toluene    | LOW (BCF = 90)     |
| acetone    | LOW (BCF = 0.69)   |

### Mobility in soil

| Ingredient | Mobility           |
|------------|--------------------|
| toluene    | LOW (KOC = 268)    |
| acetone    | HIGH (KOC = 1.981) |

### **SECTION 13 Disposal considerations**

### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ▶ Reuse
- ► Recycling
- Disposal (if all else fails)

# Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- $\mbox{\ensuremath{\,^{\blacktriangleright}}}$  Where in doubt contact the responsible authority.
- ► Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- ▶ DO NOT incinerate or puncture aerosol cans.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no

### **SECTION 14 Transport information**

### **Labels Required**



Marine Pollutant

NO

HAZCHEM

Not Applicable

### Land transport (UN)

| UN number or ID number       | 1950   | 1950           |  |
|------------------------------|--|----------------|--|
| UN proper shipping name      | AEROSOLS   | AEROSOLS       |  |
| Transport hazard class(es)   |  |                |  |
| Packing group                | Not Applicable   | Not Applicable |  |
| Environmental hazard         | Not Applicable   | Not Applicable |  |
| Special precautions for user | Special provisions         63; 190; 277; 327; 344; 381           Limited quantity         1000ml |                |  |

### Air transport (ICAO-IATA / DGR)

| UN number                       | 1950                                     |                                       |                |  |
|---------------------------------|--|---------------------------------------|----------------|--|
| UN proper shipping name         | Aerosols, flammable                      |                                       |                |  |
| Transport hazard class(es)      | ICAO/IATA Class ICAO / IATA Subrisk      | 2.1<br>Not Applicable                 |                |  |
|                                 | ERG Code                                 | 10L                                   |                |  |
| Packing group                   | Not Applicable                           | Not Applicable                        |                |  |
| Environmental hazard            | Not Applicable                           |                                       |                |  |
|                                 | Special provisions                       |                                       | A145 A167 A802 |  |
|                                 | Cargo Only Packing Instructions          |                                       | 203            |  |
|                                 | Cargo Only Maximum Qty / Pack            |                                       | 150 kg         |  |
| Special precautions for<br>user | Passenger and Cargo Packing Instructions |                                       | 203            |  |
| 4001                            | Passenger and Cargo Maximum Qty / Pack   |                                       | 75 kg          |  |
|                                 | Passenger and Cargo                      | Limited Quantity Packing Instructions | Y203           |  |
|                                 | Passenger and Cargo                      | Limited Maximum Qty / Pack            | 30 kg G        |  |

### Sea transport (IMDG-Code / GGVSee)

| UN number                    | 1950   | 1950           |  |  |
|------------------------------|--|----------------|--|--|
| UN proper shipping name      | AEROSOLS   |                |  |  |
| Transport hazard class(es)   |  |                |  |  |
| Packing group                | Not Applicable   | Not Applicable |  |  |
| Environmental hazard         | Not Applicable   |                |  |  |
| Special precautions for user | EMS Number         F-D, S-U           Special provisions         63 190 277 327 344 381 959           Limited Quantities         1000 ml |                |  |  |

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name           | Group         |
|------------------------|---------------|
| xylene                 | Not Available |
| toluene                | Not Available |
| acetone                | Not Available |
| hydrocarbon propellant | Not Available |

### Transport in bulk in accordance with the IGC Code

| Product name           | Ship Type     |
|------------------------|---------------|
| xylene                 | Not Available |
| toluene                | Not Available |
| acetone                | Not Available |
| hydrocarbon propellant | Not Available |

### **SECTION 15 Regulatory information**

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

This substance is to be managed using the conditions specified in an applicable Group Standard

| HSR Number | Group Standard                           |  |
|------------|--|--|
| HSR002515  | Aerosols (Flammable) Group Standard 2017 |  |

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

### xylene is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals - Classification Data
New Zealand Inventory of Chemicals (NZIoC)
New Zealand Workplace Exposure Standards (WES)

### toluene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List
International Agency for Research on Cancer (IARC) - Agents Classified by
the IARC Monographs - Not Classified as Carcinogenic
New Zealand Approved Hazardous Substances with controls
New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals - Classification Data
New Zealand Inventory of Chemicals (NZIoC)
New Zealand Workplace Exposure Standards (WES)

### acetone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)
New Zealand Workplace Exposure Standards (WES)

### hydrocarbon propellant is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act 
Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act Classification of Chemicals - Classification Data
New Zealand Inventory of Chemicals (NZIoC)
New Zealand Workplace Exposure Standards (WES)

### **Hazardous Substance Location**

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class | Quantity (Closed Containers)       | Quantity (Open Containers)         |
|--------------|------------------------------------|------------------------------------|
| 2.1.2A       | 3 000 L (aggregate water capacity) | 3 000 L (aggregate water capacity) |

### **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Class of substance | Quantities     |
|--------------------|----------------|
| Not Applicable     | Not Applicable |

### Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class | Gas (aggregate water capacity in mL) | Liquid<br>(L) | Solid<br>(kg) | Maximum quantity per package for each classification |
|--------------|--------------------------------------|---------------|---------------|--|
| 2.1.2A       |                                      |               |               | 1L (aggregate water capacity)                        |

### **Tracking Requirements**

Not Applicable

### **National Inventory Status**

| National Inventory                                 | Status  |  |
|--|---|--|
| Australia - AIIC / Australia<br>Non-Industrial Use | Yes   |  |
| Canada - DSL                                       | Yes   |  |
| Canada - NDSL                                      | No (xylene; toluene; acetone; hydrocarbon propellant)   |  |
| China - IECSC                                      | Yes   |  |
| Europe - EINEC / ELINCS /<br>NLP                   | Yes   |  |
| Japan - ENCS                                       | Yes   |  |
| Korea - KECI                                       | Yes   |  |
| New Zealand - NZIoC                                | Yes   |  |
| Philippines - PICCS                                | Yes   |  |
| USA - TSCA   | Yes   |  |
| Taiwan - TCSI                                      | Yes   |  |
| Mexico - INSQ                                      | Yes   |  |
| Vietnam - NCI                                      | Yes   |  |
| Russia - FBEPH                                     | Yes   |  |
| Legend:  | Yes = All CAS declared ingredients are on the inventory  No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |  |

### **SECTION 16 Other information**

| Revision Date | 10/03/2023 |
|---------------|------------|
| Initial Date  | 30/05/2006 |

### **SDS Version Summary**

| Version | Date of Update | Sections Updated  |
|---------|----------------|---|
| 13.1    | 16/08/2022     | Identification of the substance / mixture and of the company / undertaking - Synonyms |
| 14.1    | 10/03/2023     | Classification change due to full database hazard calculation/update.                 |

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average

PC - STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit,

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard
OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

**ENCS: Existing and New Chemical Substances Inventory** 

KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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