Safety Data Sheet
according to GHS

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1 Identification

· **Product identifier**

· **Trade name: INDL HI-HEAT 990H ALUMINUM**

· **Article number:** I-3323
· **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Treasure Island Industrial Corp.
No.2, 3rd Ave. S. Osmena Blvd.
North Reclamation Area
Cebu City 6000
PHILIPPINES
doo@treasureisland.com.ph

· **Further information obtainable from:** Product safety department
· **Emergency telephone number:** During normal opening times: +63 32 232 05 13

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2 Hazard identification

· **Classification of the substance or mixture**

flame

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Water-react. 2	H261 In contact with water releases flammable gases.

health hazard

Muta. 1B	H340 May cause genetic defects.
Carc. 1B	H350 May cause cancer.
Repr. 2	H361 Suspected of damaging fertility or the unborn child.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.

environment

Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

Skin Irrit. 2	H315 Causes skin irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
Acute Tox. 5	H333 May be harmful if inhaled.
Aquatic Acute 2	H401 Toxic to aquatic life.

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· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

T; Toxic

R45-46: May cause cancer. May cause heritable genetic damage.

Xn; Harmful

R21/22-48/20-63-65: Harmful in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.

Xi; Irritant

R38: Irritating to skin.

F; Highly flammable

R11-15: Highly flammable. Contact with water liberates extremely flammable gases.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

T Toxic
F Highly flammable

· **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrotreated light
Methylbenzene
Solvent naphtha (petroleum), light arom.
Petroleum Resin

· **Risk phrases:**
45 May cause cancer.
46 May cause heritable genetic damage.
11 Highly flammable.
15 Contact with water liberates extremely flammable gases.
21/22 Also harmful in contact with skin and if swallowed.
38 Irritating to skin.
48/20 Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
63 Possible risk of harm to the unborn child.
65 Harmful: may cause lung damage if swallowed.

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· **Safety phrases:**
53 Avoid exposure - obtain special instructions before use.
1/2 Keep locked up and out of the reach of children.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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3 Composition / information on ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64742-16-1	Petroleum Resin Xn R21/22 R53 Acute Tox. 5, H303; Acute Tox. 5, H313; Aquatic Chronic 4, H413	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light T Carc. Cat. 2, Muta. Cat. 2 R45-46 Xn R65 Flam. Liq. 2, H225 Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336 Aquatic Acute 2, H401	
CAS: 108-88-3	Methylbenzene Xn R48/20-63-65 Xi R38 F R11 R67 Repr. Cat. 3 Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Acute Tox. 5, H303	

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Trade name: INDL HI-HEAT 990H ALUMINUM

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CAS: 7429-90-5	aluminium powder (stabilised) F R11-15 Flam. Sol. 1, H228; Water-react. 2, H261	
CAS: 95-63-6	1,2,4-trimethylbenzene Xn R20 Xi R36/37/38 N R51/53 R10 Flam. Liq. 3, H226 Aquatic Chronic 2, H411 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Acute Tox. 5, H303	
CAS: 1330-20-7	Dimethylbenzene Xn R20/21 Xi R38 R10 Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 Acute Tox. 5, H303	
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom. T Carc. Cat. 2, Muta. Cat. 2 R45-46 Xn R65 Flam. Liq. 3, H226 Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304 Acute Tox. 4, H332 Acute Tox. 5, H313	

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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4 First-aid measures

· **Description of first aid measures**
· **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:** Rinse opened eye for several minutes under running water.
· **After swallowing:** Call for a doctor immediately.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **Special hazards arising from the substance or mixture** No further relevant information available.

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· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep unprotected persons away.
· ***Environmental precautions:***
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· ***Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· ***Handling:***
· ***Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
· ***Information about fire - and explosion protection:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *Store in a cool location.*
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:***
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
· ***Specific end use(s)*** *No further relevant information available.*

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8 Exposure controls / personal protection

· ***Additional information about design of technical facilities:*** *No further data; see item 7.*

· ***Control parameters***

· ***Ingredients with limit values that require monitoring at the workplace:***	
CAS: 108-88-3 Methylbenzene	
PEL (USA)	*Long-term value: 200 ppm* *Ceiling limit: 300; 500* ppm* **10-min peak per 8-hr shift*

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REL (USA)	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
TLV (USA)	Long-term value: 20 ppm BEI, OTO, A4
CAS: 7429-90-5 aluminium powder (stabilised)	
PEL (USA)	Long-term value: 15*; 5** mg/m³ *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m³ as Al; *as respirable fraction, A4
CAS: 95-63-6 1,2,4-trimethylbenzene	
REL (USA)	Long-term value: 125 mg/m³, 25 ppm
TLV (USA)	Long-term value: (25) NIC-10 ppm NIC-A4
CAS: 1330-20-7 Dimethylbenzene	
PEL (USA)	Long-term value: 435 mg/m³, 100 ppm
REL (USA)	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV (USA)	Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm BEI, A4

· **Ingredients with biological limit values:**

CAS: 108-88-3 Methylbenzene	
BEI (USA)	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
CAS: 1330-20-7 Dimethylbenzene	
BEI (USA)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	*Fluid*
Colour:	*According to product specification*
· **Odour:**	*Characteristic*
· **Odour threshold:**	*Not determined.*
· **pH-value:**	*Not determined.*
· **Change in condition**	
Melting point/freezing point:	*Undetermined.*
Initial boiling point and boiling range:	*78 °C*
· **Flash point:**	*< 0 °C*
· **Flammability (solid, gas):**	*Not applicable.*
· **Ignition temperature:**	*215 °C*
· **Decomposition temperature:**	*Not determined.*

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· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· **Explosion limits:**	
Lower:	1.1 Vol %
Upper:	7 Vol %
· **Vapour pressure at 20 °C:**	48 hPa
· **Density at 20 °C:**	0.91 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	56.9 %
VOC (EC)	56.93 %
Solids content:	39.6 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** Contact with water releases flammable gases.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity**

· **LD/LC50 values relevant for classification:**		
CAS: 108-88-3 Methylbenzene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
CAS: 95-63-6 1,2,4-trimethylbenzene		
Oral	LD50	5,000 mg/kg (rat)

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CAS: 1330-20-7 Dimethylbenzene		
Oral	LD50	4,300 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Irritant to skin and mucous membranes.
· **Serious eye damage/irritation** No irritating effect.
· **Respiratory or skin sensitisation** No sensitising effects known.
· **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
Carcinogenic.
The product can cause inheritable damage.

*
12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Harmful to aquatic organisms
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

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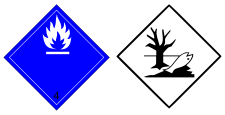
14 Transport information

· **UN-Number**
· **ADR, IMDG, IATA** UN3148

· **UN proper shipping name**
· **ADR** 3148 WATER-REACTIVE LIQUID, N.O.S. (aluminium powder (stabilised)), ENVIRONMENTALLY HAZARDOUS
· **IMDG** WATER-REACTIVE LIQUID, N.O.S. (aluminium powder (stabilised), Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
· **IATA** WATER-REACTIVE LIQUID, N.O.S. (aluminium powder (stabilised))

· **Transport hazard class(es)**

· **ADR, IMDG**



· **Class** 4.3 Substances which, in contact with water, emit flammable gases.
· **Label** 4.3

· **IATA**

· **Class** 4.3 Substances which, in contact with water, emit flammable gases.
· **Label** 4.3

· **Packing group**
· **ADR, IMDG, IATA** II

· **Environmental hazards:** Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light
· **Marine pollutant:** Yes
Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)

· **Special precautions for user** Warning: Substances which, in contact with water, emit flammable gases.
· **Hazard identification number (Kemler code):** 429
· **EMS Number:** F-G,S-N

· **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**
· **Limited quantities (LQ)** 500 ml

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· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **Transport category**	0
· **IMDG**	
· **Limited quantities (LQ)**	500 ml
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 3148 WATER-REACTIVE LIQUID, N.O.S. (ALUMINIUM POWDER (STABILISED)), 4.3, II, ENVIRONMENTALLY HAZARDOUS

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15 Regulatory information

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

· **Philippines Inventory of Chemicals and Chemical Substances**	
CAS: 64742-16-1	Petroleum Resin
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light
CAS: 108-88-3	Methylbenzene
CAS: 95-63-6	1,2,4-trimethylbenzene
CAS: 1330-20-7	Dimethylbenzene
CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.
CAS: 108-67-8	1,3,5-trimethylbenzene
CAS: 98-82-8	isopropylbenzene
CAS: 136-52-7	cobalt bis(2-ethylhexanoate)
CAS: 100-41-4	ethylbenzene
CAS: 64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy
CAS: 111-76-2	Normal Butyl Cellusolve

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations:**

· **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· **Relevant phrases**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H313	May be harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

R10	Flammable.
R11	Highly flammable.
R15	Contact with water liberates extremely flammable gases.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R21/22	Harmful in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R38	Irritating to skin.
R45	May cause cancer.
R46	May cause heritable genetic damage.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

· **Department issuing SDS:** Product safety department
· **Contact:** Mr. Ong
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Sol. 1: Flammable solids – Category 1
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2
Acute Tox. 5: Acute toxicity – Category 5

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Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Muta. 1B: Germ cell mutagenicity – Category 1B
Carc. 1B: Carcinogenicity – Category 1B
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
· **** Data compared to the previous version altered.***