

**METALURE LIQUID BLACK**

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000000649      Date of last issue: -  
Date of first issue: 03/21/2018

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**SECTION 1. IDENTIFICATION**

Product name : METALURE LIQUID BLACK

Product code : 053377QQ0

**Manufacturer or supplier's details**

Company name of supplier : ECKART GmbH

Address : Guentersthal 4  
Hartenstein 91235

Telephone : +499152770

Telefax : +499152777008

Emergency telephone number : CHEMTREC: 800-424-9300  
CHEMTREC: 1-703-527-3387 (International)

GBK Gefahrgut Buero GmbH, Ingelheim, Germany:  
From outside US: (001) 352-323-3500  
(First call in English, response in your language is possible)  
US & Canada (toll free):1-800-5355-053

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids : Category 3

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 3 (Central nervous system)  
- single exposure

**GHS label elements**

Hazard pictograms :



Signal word : Danger

## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

---

Hazard statements : H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

**Disposal:**

P501	Dispose of contents/ container to an approved waste disposal plant.
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**METALURE LIQUID BLACK**

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000000649      Date of last issue: -  
Date of first issue: 03/21/2018

---

Hazardous components which must be listed on the label:

2-Propanol, 1-methoxy-  
1-Propanol, 2-methoxy-

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
2-Propanol, 1-methoxy-	107-98-2	>= 70 - < 90
Chromium	7440-47-3	>= 5 - < 10
Chromium oxide (Cr2O3)	1308-38-9	>= 1 - < 5
1-Propanol, 2-methoxy-	1589-47-5	>= 0.1 - < 1

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**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : May cause drowsiness or dizziness.  
May damage fertility or the unborn child.
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**SECTION 5. FIREFIGHTING MEASURES**

## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

---

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Keep away from open flames, hot surfaces and sources of

## METALURE LIQUID BLACK

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000000649      Date of last issue: -  
 Date of first issue: 03/21/2018

ignition.

- Advice on safe handling : Avoid formation of aerosol.  
 Do not breathe vapours/dust.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 Take precautionary measures against static discharges.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Open drum carefully as content may be under pressure.  
 Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.  
 Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Observe label precautions.  
 Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-Propanol, 1-methoxy-	107-98-2	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		ST	150 ppm 540 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 360 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 360 mg/m <sup>3</sup>	OSHA P0
		STEL	150 ppm	OSHA P0

## METALURE LIQUID BLACK

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000000649      Date of last issue: -  
 Date of first issue: 03/21/2018

Chromium	7440-47-3	TWA	540 mg/m <sup>3</sup> 0.5 mg/m <sup>3</sup>	NIOSH REL
		TWA	0.5 mg/m <sup>3</sup>	ACGIH
		TWA	1 mg/m <sup>3</sup>	OSHA P0
		TWA	0.5 mg/m <sup>3</sup> (chromium)	OSHA Z-1
		TWA	1 mg/m <sup>3</sup>	OSHA P0
		TWA	0.5 mg/m <sup>3</sup>	NIOSH REL
		TWA	1 mg/m <sup>3</sup> (chromium)	OSHA Z-1
		TWA	0.5 mg/m <sup>3</sup> (chromium)	ACGIH
		TWA	0.5 mg/m <sup>3</sup> (chromium)	OSHA Z-1
Chromium oxide (Cr <sub>2</sub> O <sub>3</sub> )	1308-38-9	TWA	0.5 mg/m <sup>3</sup> (chromium)	OSHA Z-1
		TWA	0.5 mg/m <sup>3</sup> (chromium)	ACGIH
		TWA	0.5 mg/m <sup>3</sup> (chromium)	NIOSH REL

**Hazardous components without workplace control parameters**

Components	CAS-No.
1-Propanol, 2-methoxy-	1589-47-5

**Personal protective equipment**

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Safety glasses
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
 When using do not smoke.  
 Wash hands before breaks and at the end of workday.

**METALURE LIQUID BLACK**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

---

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: liquid
Colour	: black
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Boiling point/boiling range	: 120 °C
Flash point	: 31 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Solubility(ies)	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

---

**Components:****2-Propanol, 1-methoxy-:**

Acute oral toxicity : LD50 (Rat): 4,016 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 25.8 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

**Chromium:**

Acute oral toxicity : LD50 Oral: > 5,000 mg/kg

Acute inhalation toxicity : LC50: > 5.41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen



## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

---

by NTP.

**Reproductive toxicity**

May damage fertility or the unborn child.

**STOT - single exposure**

May cause drowsiness or dizziness.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- |                        |   |  |
|------------------------|---|--|
| Waste from residues    | : | Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company.<br>In accordance with local and national regulations. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty drum.<br>In accordance with local and national regulations.               |

## METALURE LIQUID BLACK

Version      Revision Date:      SDS Number:      Date of last issue: -  
 1.0          03/21/2018          102000000649      Date of first issue: 03/21/2018

## SECTION 14. TRANSPORT INFORMATION

## International Regulations

## IATA-DGR

UN/ID No.                   : UN 1263  
 Proper shipping name     : Paint  
 Class                       : 3  
 Packing group             : III  
 Labels                     : Flammable Liquids  
 Packing instruction (cargo aircraft) : 366  
 Packing instruction (passenger aircraft) : 355

## IMDG-Code

UN number                 : UN 1263  
 Proper shipping name     : PAINT  
  
 Class                       : 3  
 Packing group             : III  
 Labels                     : 3  
 EmS Code                 : F-E, S-E  
 Marine pollutant         : no

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## National Regulations

## 49 CFR

UN/ID/NA number         : UN 1263  
 Proper shipping name     : Paint  
  
 Class                       : 3  
 Packing group             : III  
 Labels                     : FLAMMABLE LIQUID  
 ERG Code                 : 128  
 Marine pollutant         : no

## SECTION 15. REGULATORY INFORMATION

## EPCRA - Emergency Planning and Community Right-to-Know Act

## CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)

## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

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Chromium	7440-47-3	5000
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**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
 Reproductive toxicity  
 Specific target organ toxicity (single or repeated exposure)

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Chromium	7440-47-3	>= 5 - < 10 %
Chromium oxide (Cr2O3)	1308-38-9	>= 1 - < 5 %

**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Chromium	7440-47-3	6.8 %
Chromium oxide (Cr2O3)	1308-38-9	3.2 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM/ Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Chromium	7440-47-3	6.8 %
Chromium oxide (Cr2O3)	1308-38-9	3.2 %

**US State Regulations****Massachusetts Right To Know**

2-Propanol, 1-methoxy-	107-98-2
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## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

---

Chromium	7440-47-3
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Chromium oxide (Cr2O3)	1308-38-9
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**Massachusetts Right To Know**

2-Propanol, 1-methoxy-	107-98-2
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Chromium	7440-47-3
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Chromium oxide (Cr2O3)	1308-38-9
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**Pennsylvania Right To Know**

2-Propanol, 1-methoxy-	107-98-2
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Chromium	7440-47-3
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Chromium oxide (Cr2O3)	1308-38-9
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**Pennsylvania Right To Know**

2-Propanol, 1-methoxy-	107-98-2
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Chromium	7440-47-3
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Chromium oxide (Cr2O3)	1308-38-9
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**New Jersey Right To Know**

2-Propanol, 1-methoxy-	107-98-2
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Chromium	7440-47-3
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Chromium oxide (Cr2O3)	1308-38-9
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**California Prop. 65**

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

2-Propanol, 1-methoxy-	107-98-2
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Chromium	7440-47-3
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Chromium oxide (Cr2O3)	1308-38-9
------------------------	-----------

## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

---

**California Permissible Exposure Limits for Chemical Contaminants**

2-Propanol, 1-methoxy-	107-98-2
Chromium	7440-47-3
Chromium oxide (Cr2O3)	1308-38-9

**The components of this product are reported in the following inventories:**

DSL : All components of this product are on the Canadian DSL

TSCA : On TSCA Inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / STEL : Short-term exposure limit

OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely

## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000000649	Date of first issue: 03/21/2018

---

Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 03/21/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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