

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

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

#### 1.1 Product identifier

Trade name : METALURE LIQUID BLACK  
Product code : 053377QR0

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

This information is not available.

#### 1.3 Details of the supplier of the safety data sheet

Company : ECKART Suisse SA  
Route de la Brasserie 2  
1963 Vétroz  
  
Telephone : +410273454800  
  
Telefax : +410273454859  
  
E-mail address of person responsible for the SDS : [msds.eckart@altana.com](mailto:msds.eckart@altana.com)

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)  
Call and response in your language is possible.  
Contract no.: ECKART29003-NCEC.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2      H225: Highly flammable liquid and vapour.  
Specific target organ toxicity - single exposure, Category 3, Central nervous system      H336: May cause drowsiness or dizziness.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :  

Signal word : Danger

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

Hazard statements : H225 Highly flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing mist or vapours.

**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Hazardous components which must be listed on the label:

1-methoxy-2-propanol  
ethyl acetate

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	ClassificationREGULATION (EC) No 1272/2008	Concentration (% w/w)
1-methoxy-2-propanol	107-98-2  203-539-1 603-064-00-3	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 50 - <= 100
chromium	7440-47-3  231-157-5	Aquatic Chronic 4; H413	>= 2.5 - < 10
ethyl acetate	141-78-6	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

	205-500-4 607-022-00-5 01-2119475103-46	STOT SE 3; H336 (Central nervous system) EUH066	
Substances with a workplace exposure limit :			
chromium (III) oxide	1308-38-9  215-160-9 01-2119433951-39		>= 1 - < 10

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- 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.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : May cause drowsiness or dizziness.

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

This information is not available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Print Date: 15.04.2024
5.1	13.07.2023	102000000649	Date of first issue: 10.01.2014

---

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

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.

### 6.3 Methods and material for containment and cleaning up

Methods for 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).

### 6.4 Reference to other sections

For personal protection see section 8.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
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.
- 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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : 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.

#### 7.3 Specific end use(s)

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
1-methoxy-2-propanol	107-98-2	STEL	150 ppm 568 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm 375 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version  
5.1

Revision Date:  
13.07.2023

SDS Number:  
102000000649

Print Date: 15.04.2024  
Date of first issue: 10.01.2014

		TWA	100 ppm 375 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	150 ppm 560 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
chromium	7440-47-3	TWA	2 mg/m <sup>3</sup>	2006/15/EC
	Further information: Indicative			
		TWA	0.5 mg/m <sup>3</sup>	GB EH40
	Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
		TWA	2 mg/m <sup>3</sup> (chromium)	2006/15/EC
	Further information: Indicative			
ethyl acetate	141-78-6	TWA	200 ppm 734 mg/m <sup>3</sup>	GB EH40
		STEL	400 ppm 1,468 mg/m <sup>3</sup>	GB EH40
		STEL	400 ppm 1,468 mg/m <sup>3</sup>	2017/164/EU
	Further information: Indicative			
		TWA	200 ppm 734 mg/m <sup>3</sup>	2017/164/EU
	Further information: Indicative			
chromium (III) oxide	1308-38-9	TWA	2 mg/m <sup>3</sup> (chromium)	2006/15/EC
	Further information: Indicative			
		TWA	0.5 mg/m <sup>3</sup> (chromium)	GB EH40
	Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
chromium	7440-47-3	chromium (chromium): 10 µmol/mol creatinine (Urine)	After shift	GB EH40 BAT

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
1-methoxy-2-propanol	Workers	Inhalation	Long-term systemic effects	369 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	553.5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic	50.6 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version  
5.1

Revision Date:  
13.07.2023

SDS Number:  
102000000649

Print Date: 15.04.2024  
Date of first issue: 10.01.2014

			effects	
	Consumers	Inhalation	Long-term systemic effects	43.9 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	18.1 mg/kg
	Consumers	Ingestion	Long-term systemic effects	3.3 mg/kg
ethyl acetate	Workers	Inhalation	Long-term systemic effects	734 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	734 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	1468 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	63 mg/kg
	Workers	Inhalation	Acute local effects	1468 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	367 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	367 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	734 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	734 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	37 mg/kg
	Workers	Skin contact	Long-term local effects	63 mg/kg
	Consumers	Ingestion	Long-term systemic effects	4.5 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
1-methoxy-2-propanol	Fresh water	10 mg/l
	Marine water	1 mg/l
	STP	100 mg/l
	Fresh water sediment	41.6 mg/kg
	Marine sediment	4.17 mg/kg
	Soil	2.47 mg/kg
	periodical release	100 mg/l
ethyl acetate	Fresh water	0.24 mg/l
	Marine water	0.024 mg/l
	STP	650 mg/l
	Fresh water sediment	1.15 mg/kg
	Marine sediment	0.115 mg/kg
	Soil	0.148 mg/kg
	periodical release	1.65 mg/l

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

---

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : black

Odour : characteristic

Odour Threshold : No data available

Freezing point : No data available

Boiling point/boiling range : 120 °C

Flammability : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : 17 °C

Auto-ignition temperature : Not relevant

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity, kinematic : No data available

Solubility(ies)  
Water solubility : insoluble  
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Print Date: 15.04.2024
5.1	13.07.2023	102000000649	Date of first issue: 10.01.2014

---

Relative density : No data available

Density : 0.91 g/cm<sup>3</sup> (25 °C)

Relative vapour density : No data available

Particle Size Distribution : No data available

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

This information is not available.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **1-methoxy-2-propanol:**

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

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

---

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

### **ethyl acetate:**

Acute oral toxicity : (Rat): 5,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): 56 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 18,000 mg/kg

### **Skin corrosion/irritation**

Not classified based on available information.

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Components:**

#### **ethyl acetate:**

Result : Eye irritation

### **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.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

May cause drowsiness or dizziness.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

---

### Components:

#### **ethyl acetate:**

Assessment : May cause drowsiness or dizziness.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

### 11.2 Information on other hazards

#### **Further information**

#### Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **chromium:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

#### **ethyl acetate:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 717 mg/l

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

---

very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

**Product:**

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

European Waste Catalogue : 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

### 14.2 UN proper shipping name

ADR : PAINT  
IMDG : PAINT, CLASSIFIED ACCORDING TO 2.3.2.2 IMDG-CODE  
IATA : Paint, classified according to 3.3.3.1 IATA-DGR

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 3	
IMDG	: 3	

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

---

**IATA** : 3

### 14.4 Packing group

#### ADR

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (E)

#### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : 3

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : 3

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version 5.1      Revision Date: 13.07.2023      SDS Number: 102000000649      Print Date: 15.04.2024  
Date of first issue: 10.01.2014

---

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3  
1-methoxy-2-propanol (Number on list 40, 3)  
chromium (Number on list 72, 28)  
ethyl acetate (Number on list 3)

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

### 15.2 Chemical safety assessment

No data available

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## SECTION 16: Other information

### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.  
H413 : May cause long lasting harmful effects to aquatic life.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
2006/15/EC : Europe. Indicative occupational exposure limit values  
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
GB EH40 BAT : UK. Biological monitoring guidance values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
2006/15/EC / TWA : Limit Value - eight hours  
2006/15/EC / TWA : Limit Value - eight hours  
2017/164/EU / STEL : Short term exposure limit  
2017/164/EU / TWA : Limit Value - eight hours  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## METALURE LIQUID BLACK

Version	Revision Date:	SDS Number:	Print Date: 15.04.2024
5.1	13.07.2023	102000000649	Date of first issue: 10.01.2014

Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Flam. Liq. 2	H225
STOT SE 3	H336

#### Classification procedure:

Based on product data or assessment
Calculation method

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