METALURE ULTRA BLACK

Version 2.0 Revision Date 09.02.2023 Print Date 02.12.2024

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

1.1 Product identifier

Trade name : METALURE ULTRA BLACK
Material number : 026011QR0

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 GmbH
Guentersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

NCEC:
(contract no.: ECKART29003-NCEC)
+44 1235 239671 (Middle East/Africa, call and response in your language)
+1 215 207 0061 (Americas, call and response in your language)
+65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Flammable liquids, Category 2, H225
Specific target organ toxicity - single exposure, Category 3, Central nervous system, H336

GHS-Labelling

Symbol(s) :

Signal word : Danger

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.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P261 Avoid breathing mist or vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water.
P304 + P340 + P319 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.
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.

Hazardous components which must be listed on the label

Identification	CAS-No.
1-methoxypropan-2-ol	107-98-2
n-butyl acetate	123-86-4
ethyl acetate	141-78-6

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
1-methoxypropan-2-ol	107-98-2 203-539-1	Flam. Liq.;3;H226 STOT SE;3;H336	25 - 50
n-butyl acetate	123-86-4 204-658-1	Flam. Liq.;3;H226 STOT SE;3;H336	25 - 50
chromium	7440-47-3 231-157-5	Acute Tox.;5;H333 Aquatic Chronic;4;H413	2,5 - 10
ethyl acetate	141-78-6 205-500-4	Flam. Liq.;2;H225 ;2A;H319 STOT SE;3;H336	1 - 10

titanium dioxide	13463-67-7 236-675-5	Acute Tox.;5;H333	1 - 10

For the full text of the H-Statements mentioned in this Section, 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

This information is not available.

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 (CO2), Dry chemical
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.

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 materials 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

This information is not available.

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.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
1-methoxypropan-2-ol	107-98-2	STEL	150 ppm 568 mg/m3	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skinIndicative			
1-methoxypropan-2-ol	107-98-2	TWA	100 ppm 375 mg/m3	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skinIndicative			
1-methoxypropan-2-ol	107-98-2	AGW	100 ppm 370 mg/m3	2010-08-04	DE TRGS 900

Peak-limit: excursion factor (category)		2;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
chromium	7440-47-3	TWA	2 mg/m3	2006-02-09	2006/15/EC
Further information		Indicative			
chromium	7440-47-3	AGW (Inhalable fraction)	2 mg/m3	2007-12-27	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		European Union (The EU has established a limit value: deviations in value and peak limit are possible)The threshold value is based on the element content of the corresponding metal.			
chromium	7440-47-3	TWA	2 mg/m3	2006-02-09	2006/15/EC
Further information		Indicative			
chromium	7440-47-3	AGW (Inhalable fraction)	2 mg/m3	2018-06-07	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		European Union (The EU has established a limit value: deviations in value and peak limit are possible)The threshold value is based on the element content of the corresponding metal.			
ethyl acetate	141-78-6	AGW	200 ppm 730 mg/m3	2017-06-08	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

ethyl acetate	141-78-6	STEL	400 ppm 1 468 mg/m3	2017-02-01	2017/164/EU
Further information		Indicative			
ethyl acetate	141-78-6	TWA	200 ppm 734 mg/m3	2017-02-01	2017/164/EU
Further information		Indicative			
chromium (III) oxide	1308-38-9	AGW (Inhalable fraction)	2 mg/m3	2018-06-07	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		European Union (The EU has established a limit value: deviations in value and peak limit are possible)The threshold value is based on the element content of the corresponding metal.			
chromium (III) oxide	1308-38-9	TWA	2 mg/m3	2006-02-09	2006/15/EC
Further information		Indicative			
titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
titanium dioxide	13463-67-7	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory			

		organs in excess of the normal values.Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
titanium dioxide	13463-67-7	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values.Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
1-methoxypropan-2-ol	107-98-2	TWA	50 ppm	2014-03-01	
1-methoxypropan-2-ol	107-98-2	STEL	100 ppm	2014-03-01	
1-methoxypropan-2-ol	107-98-2	ST	150 ppm 540 mg/m3	2013-10-08	
1-methoxypropan-2-ol	107-98-2	TWA	100 ppm 360 mg/m3	2013-10-08	
1-methoxypropan-2-ol	107-98-2	TWA	100 ppm 360 mg/m3	1989-01-19	
1-methoxypropan-2-ol	107-98-2	STEL	150 ppm 540 mg/m3	1989-01-19	
1-methoxyprop	107-98-2	PEL	100 ppm 360 mg/m3	2014-11-26	

an-2-ol					
1-methoxypropan-2-ol	107-98-2	STEL	150 ppm 540 mg/m3	2014-11-26	
4-methylpentan-2-one	108-10-1	TWA	20 ppm	2013-03-01	
4-methylpentan-2-one	108-10-1	STEL	75 ppm	2013-03-01	
4-methylpentan-2-one	108-10-1	TWA	50 ppm 205 mg/m3	2013-10-08	
4-methylpentan-2-one	108-10-1	ST	75 ppm 300 mg/m3	2013-10-08	
4-methylpentan-2-one	108-10-1	TWA	100 ppm 410 mg/m3	1997-08-04	
4-methylpentan-2-one	108-10-1	TWA	50 ppm 205 mg/m3	1989-01-19	
4-methylpentan-2-one	108-10-1	STEL	75 ppm 300 mg/m3	1989-01-19	
4-methylpentan-2-one	108-10-1	PEL	50 ppm 205 mg/m3	2014-11-26	
4-methylpentan-2-one	108-10-1	STEL	75 ppm 300 mg/m3	2014-11-26	
Carbon black	1333-86-4	TWA	3,5 mg/m3	2010-03-01	
Carbon black	1333-86-4	TWA	3,5 mg/m3	2013-10-08	
Carbon black	1333-86-4	TWA	3,5 mg/m3	1997-08-04	
Carbon black	1333-86-4	TWA	3,5 mg/m3	1989-01-19	
Carbon black	1333-86-4	TWA (Inhalable particulate matter)	3 mg/m3	2013-03-01	

Carbon black	1333-86-4	TWA	0,1 mg/m3	2013-10-08	
Carbon black	1333-86-4	PEL	3,5 mg/m3	2014-11-26	
chromium	7440-47-3	TWA	0,5 mg/m3	2013-10-08	
chromium	7440-47-3	TWA	0,5 mg/m3	2007-01-01	
chromium	7440-47-3	TWA	1 mg/m3	1989-01-19	
chromium	7440-47-3	TWA	0,5 mg/m3	2007-01-01	
chromium	7440-47-3	TWA	1 mg/m3	1989-01-19	
chromium	7440-47-3	TWA	0,5 mg/m3	2013-10-08	
chromium	7440-47-3	TWA	1 mg/m3	2011-07-01	
chromium	7440-47-3	PEL	0,5 mg/m3	2014-11-26	
chromium	7440-47-3	TWA	0,5 mg/m3	2007-01-01	
chromium	7440-47-3	TWA	0,5 mg/m3	2019-03-05	
ethyl acetate	141-78-6	TWA	400 ppm	2013-03-01	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m3	2013-10-08	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m3	1997-08-04	
ethyl acetate	141-78-6	TWA	400 ppm 1 400 mg/m3	1989-01-19	
ethyl acetate	141-78-6	PEL	400 ppm 1 400 mg/m3	2014-11-26	
chromium (III) oxide	1308-38-9	TWA	0,5 mg/m3	2007-01-01	
chromium (III) oxide	1308-38-9	TWA	0,5 mg/m3	2013-10-08	
chromium (III) oxide	1308-38-9	PEL	0,5 mg/m3	2014-11-26	
titanium dioxide	13463-67-7	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	2012-07-01	
titanium dioxide	13463-67-7	TWA (respirable fraction)	5 mg/m3	2012-07-01	
titanium dioxide	13463-67-7	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
titanium dioxide	13463-67-7	PEL (Total dust)	10 mg/m3	2014-11-26	
titanium	13463-67-	PEL (respirable	5 mg/m3	2014-11-26	

dioxide	7	dust fraction)			
titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m3	2011-07-01	
titanium dioxide	13463-67-7	TWA (Total dust)	10 mg/m3	1989-01-19	
titanium dioxide	13463-67-7	PEL (Total dust)	10 mg/m3	2014-11-26	
titanium dioxide	13463-67-7	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
titanium dioxide	13463-67-7	TWA (Respirable particulate matter)	2,5 mg/m3	2022-01-01	
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	147-14-8	TWA	1 mg/m3	2013-10-08	

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

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.

Environmental exposure controls

General advice : 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	black
Odour	:	characteristic
pH	:	substance/mixture is non-soluble (in water)
Freezing point	:	No data available
Boiling point/boiling range	:	117 °C
Flash point	:	14 °C
Bulk density	:	No data available
Flammability (solid, gas)	:	No data available
Auto-flammability	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Density	:	No data available
Solubility(ies)		
Water solubility	:	insoluble
Miscibility with water	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available

Thermal decomposition	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available

9.2 Other information

No data available

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

Materials to avoid : No data available

10.6 Hazardous decomposition products

Other information : No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

1-methoxypropan-2-ol :

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

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

titanium dioxide :

Acute oral toxicity	:	LD50 Rat: > 5 000 mg/kg
Acute inhalation toxicity	:	LC50 Rat: 6,8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 Rabbit: > 5 000 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

chromium (7440-47-3) :

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : May cause long lasting harmful effects to aquatic life.

ethyl acetate (141-78-6) :

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

No data available

12.6 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

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.

SECTION 14: Transport information

14.1 UN number

ADR	:	1263
TDG	:	1263
CFR	:	1263
IMDG	:	1263
IATA	:	1263

14.2 Proper shipping name

ADR	:	PAINT
TDG	:	PAINT
CFR	:	PAINT
IMDG	:	PAINT
IATA	:	PAINT

14.3 Transport hazard class

ADR	:	3
TDG	:	3
CFR	:	3
IMDG	:	3
IATA	:	3

14.4 Packing group

ADR

Packaging group	:	II
Classification Code	:	F1
Hazard Identification Number	:	33
Labels	:	3
Tunnel restriction code	:	(D/E)

TDG

Packaging group	:	II
Labels	:	3

CFR

Packaging group	:	II
Labels	:	3

IMDG

Packaging group	:	II
Labels	:	3

IATA

Packing instruction (cargo aircraft)	:	364
Packing instruction (passenger aircraft)	:	353

Packing instruction (LQ)	:	Y341
Packaging group	:	II
Labels	:	3

14.5 Environmental hazards

14.6 Special precautions for user

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

No data available

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Banned and/or restricted (1-methoxy-2-propanol) (n-butyl acetate) (chromium) (ethyl acetate)

15.2 Chemical safety assessment

No data available

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.
H333	:	May be harmful if inhaled.
H336	:	May cause drowsiness or dizziness.
H413	:	May cause long lasting harmful effects to aquatic life.

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.