

**Safety Data Sheet**

according to UK REACH Regulation

**Black Devil Bluing oil**

Revision date: 24.04.2023

Product code: 0244

Page 1 of 9

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Black Devil Bluing oil

Substance name: white mineral oil (petroleum)  
CAS No: 8042-47-5  
EC No: 232-455-8  
UFI: NKRS-XPDP7-200W-MW9F

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Metal surface treatment products

**Uses advised against**

all types of spray or fogging application

**1.3. Details of the supplier of the safety data sheet**

Company name: MARAWE GmbH & Co. KG  
Street: Donaustauer Str. 378 - Gebäude 64  
Place: D-93055 Regensburg  
Telephone: +49 941 / 29020439      Telefax: +49 941 / 29020593  
e-mail: info@marawe.de  
Contact person: Product safety department  
Internet: www.marawe.de

**1.4. Emergency telephone number:**+49 941 / 29020439,  
Mon-Thu 9:00 - 16:00; Fri 9:00 - 14:00**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Signal word:** Danger**Pictograms:****Hazard statements**

H304      May be fatal if swallowed and enters airways.

**Precautionary statements**

P101      If medical advice is needed, have product container or label at hand.  
P102      Keep out of reach of children.  
P301+P310      IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P331      Do NOT induce vomiting.  
P405      Store locked up.  
P501      Dispose of contents/container to an appropriate recycling or disposal facility according to local/national regulations.

**Safety Data Sheet**

according to UK REACH Regulation

**Black Devil Bluing oil**

Revision date: 24.04.2023

Product code: 0244

Page 2 of 9

**SECTION 3: Composition/information on ingredients****3.1. Substances****Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
8042-47-5	white mineral oil (petroleum)	95 - < 100 %
	232-455-8	
	01-2119487078-27-XXXX	
	Asp. Tox. 1; H304	

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
8042-47-5	232-455-8	white mineral oil (petroleum)	95 - < 100 %
		inhalation: LC50 = > 5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Do not leave affected person unattended. In all cases of doubt, or when symptoms persist, seek medical advice.

**After inhalation**

Provide fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

**After contact with skin**

Gently wash with plenty of soap and water. Remove clothing contaminated with product.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. In case of eye irritation consult an ophthalmologist.

**After ingestion**

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Medical treatment necessary.

**4.2. Most important symptoms and effects, both acute and delayed**

Pneumonia.  
Death by aspiration.

**4.3. Indication of any immediate medical attention and special treatment needed**

Subsequent observance for pneumonia and lung oedema.  
In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxilison spray, Pulmicort-dosage-spray. (Auxilison and Pulmicort are registered trademarks.)  
Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

**Safety Data Sheet**

according to UK REACH Regulation

**Black Devil Bluing oil**

Revision date: 24.04.2023

Product code: 0244

Page 3 of 9

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Vapours may form explosive mixtures with air.

Upon heating and in case of fire, the following may be released: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>) Pyrolysis products, toxic, irritant vapours / gases**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No special measures are necessary.

**7.3. Specific end use(s)**

Metal surface treatment products

## Safety Data Sheet

according to UK REACH Regulation

### Black Devil Bluing oil

Revision date: 24.04.2023

Product code: 0244

Page 4 of 9

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
8042-47-5	white mineral oil (petroleum)			
Worker DNEL, long-term		inhalation	systemic	160 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	217,1 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	34,78 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	93 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	25 mg/kg bw/day

#### Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

##### Eye/face protection

Tight sealing protective goggles (DIN EN 166).

##### Hand protection

Wear suitable gloves. A chemical protective glove tested according to EN 374 is suitable. Check leak tightness/impermeability prior to use. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber)

Material thickness  $\geq 0,65$  mm

Breakthrough time:  $>480$  minutes

The times given should be regarded as guidelines and may vary considerably depending on the specific application (e.g. increased temperature, stretching of the glove material). In case of doubt, contact the manufacturer.

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

**Safety Data Sheet**

according to UK REACH Regulation

**Black Devil Bluing oil**

Revision date: 24.04.2023

Product code: 0244

Page 5 of 9

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	colourless
Odour:	odourless

**Test method****Changes in the physical state**

Melting point/freezing point:	-6 °C
Boiling point or initial boiling point and boiling range:	218 - 800 °C
Flash point:	> 182 °C

**Flammability**

Solid/liquid:	not applicable
Gas:	not applicable

**Explosive properties**

The product is not: Explosive.

Lower explosion limits:	0,9 vol. %
Upper explosion limits:	7 vol. %

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature: not determined

pH-Value: not determined

Viscosity / kinematic:  
(at 40 °C) 14,5 mm<sup>2</sup>/s ASTM D 445

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure:  
(at 20 °C) < 0,13 hPaDensity (at 15 °C): 0,81 - 0,89 g/cm<sup>3</sup>

Relative vapour density: not determined

**9.2. Other information****Information with regard to physical hazard classes**

Oxidizing properties

The product is not: oxidising.

**Other safety characteristics**

Solid content: not determined

Evaporation rate: not determined

**Further Information****SECTION 10: Stability and reactivity**

**Safety Data Sheet**

according to UK REACH Regulation

**Black Devil Bluing oil**

Revision date: 24.04.2023

Product code: 0244

Page 6 of 9

**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture.

**10.5. Incompatible materials**

Oxidizing agent

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

Hazardous combustion products: see subsection 5.2

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
8042-47-5	white mineral oil (petroleum)				
	oral	LD50 mg/kg	>5000	Rat	ECHA OECD 401
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA OECD 402
	inhalation (4 h) dust/mist	LC50	> 5 mg/l	Rat	ECHA OECD 403

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Additional information on tests**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

## Safety Data Sheet

according to UK REACH Regulation

### Black Devil Bluing oil

Revision date: 24.04.2023

Product code: 0244

Page 7 of 9

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
8042-47-5	white mineral oil (petroleum)					
	Acute fish toxicity	LL50 mg/l	>100	96 h Oncorhynchus mykiss (Rainbow trout)	ECHA	OECD 203
	Acute crustacea toxicity	EL50 mg/l	>100	48 h Daphnia magna (Big water flea)	ECHA	OECD 202

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
8042-47-5	white mineral oil (petroleum)	> 3,5

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

The product has not been tested.

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### Contaminated packaging

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

##### 14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

##### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

##### 14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

##### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

##### 14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

**Safety Data Sheet**

according to UK REACH Regulation

**Black Devil Bluing oil**

Revision date: 24.04.2023

Product code: 0244

Page 8 of 9

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.**14.4. Packing group:** No dangerous good in sense of this transport regulation.**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.**14.4. Packing group:** No dangerous good in sense of this transport regulation.**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADR: Accord européen sur le transport 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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%



**Safety Data Sheet**

according to UK REACH Regulation

**Black Devil Bluing oil**

Revision date: 24.04.2023

Product code: 0244

Page 9 of 9

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>**Relevant H and EUH statements (number and full text)**

H304 May be fatal if swallowed and enters airways.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.