

MSA – AME 507

Version 2.1 EN

page 1 of 6
Date printed: 15.06.2016
Revised on: 07.04.2016

***1. Identification of the substance / mixture and of the company / undertaking**

Product identifier

Trade name

MSA – AME 507

Use of the substance/mixture

Mixture for industrial and trade use

Non-water-miscible minimum quantity lubricant, free of mineral oil

Company/undertaking identification

unitech Kühlschmierstoffe GmbH

Röntgenstrasse 7, D-57439 Attendorn

Telephone: +49 (0) 2722 9376-0

Fax: +49 (0) 2722 9376-76

Information on substance/mixture:

Product Safety Department

Telephone: +49 (0) 2722 9376-17

E-Mail: Produktsicherheit@unitech-kss.de

Emergency telephone: +49 (0) 2722 9376-54

***2. Hazards identification**

Classification of mixture

Regulation (EC) No. 1272/2008 (EU-GHS)

Not classified

Labelling

Regulation (EC) No. 1272/2008

Pictogram not applicable

Signal word not applicable

Hazard statements
not applicable

Precautionary statements
not applicable

Other hazards

Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable.

*3. Composition / information on ingredients

General designation of constituents
Mixture on the basis of fatty acid esters, dyed

Dangerous constituents

Designation	CAS-No.	Concentration	Classification*
Contains no constituents in quantities subject to declaration			

* The text of the hazard statements (H-phrases) quoted can be found in Chapter 16.

4. First aid measures

After inhalation

Take the person affected out into the fresh air and allow him to lie down quietly.

After skin contact

Remove contaminated clothing immediately and wash affected parts of the body with soap and water.

After eye contact

If product comes into contact with eyes, carry out thorough rinsing immediately with plenty of water and consult a doctor.

After swallowing

Do not induce vomiting. Rinse out the mouth with water immediately and drink plenty of water. Get medical attention.

5. Firefighting measures

Suitable extinguants

Foam, CO₂, dry powder extinguant

Unsuitable extinguant for safety reasons

Jet of water

Special hazards from the substance or the actual product, its combustion products or gases produced

CO_x

Special protective equipment for fire-fighting

In the event of fire, use self-contained breathing apparatus.

Additional notes

The disposal of fire residues and contaminated fire-protection water must be carried out in compliance with official regulations.

6. Accidental release measures

Personal precautionary measures

Avoid skin and eye contact. Use personal protective equipment. Caution - Slippery surface through leakage of product.

Environmental protection measures

Do not allow product to get into surface waters, the sewage system or the soil.

Cleaning/elimination procedure

Absorb liquid with oil or universal binders and carry out disposal in compliance with official regulations.

7. Handling and storage

Handling

Notes on safe handling

Avoid excessive skin contact, use gloves if necessary (e.g., nitrile rubber). Avoid forming of vapors and aerosols as far as possible. Ensure adequate ventilation, if necessary use local fume extraction equipment.

Storage

Requirements for storage rooms/conditions

Protect from frost and heat. Store in closed containers.

Containers and filling equipment is to be handled/stored in such a manner that endangerment of water and soil from leakage of product can be excluded water.

Notes on mixed storage

Storage Class 10 – 13 (other combustible and non-combustibles materials, TRGS 510, Germany) (TRGS = Technical rules for hazardous substances)

Specific use(s)

Mixture for industrial and trade use

Non-water-miscible minimum quantity lubricant, free of mineral oil

Germany:

The DGUV-Regulation 109-003 (previously BGR/GUV-R 143) "Activities involving cooling lubricants" is to be observed.

DGUV-Information 209-024 (previously BGI / GUV-I 718) "MMS in metal cutting"

DGUV-Information 213-723 (previously BGI / GUV-I 790-023) "minimum quantity lubrication during chipping metal"

8. Exposure controls / personal protection

Exposure limit values

Occupational exposure limits

Germany

CAS No.	Substance	OEL	Limit-value	Remarks
---------	-----------	-----	-------------	---------

The product contains no relevant quantities of individual substances with workplace-related limit values that have to be monitored.

Exposure controls in the workplace

Protection and Hygiene measures

Keep away from food and drink. Do not put cleaning cloths saturated with product in your pockets.
Wash your hands before breaks and meals. After work, use moisturizing skin cream. Observe workplace-related skin protection plan.

Personal protection equipment

Respiratory protection
Not necessary with adequate ventilation.

Hand protection

Use protective gloves of suitable material (e.g., nitrile rubber, penetration time > 480 min) tested according to EN 374.
Use suitable skin protection cream that is not dissolved by oil if gloves cannot be worn.
Observe skin protection plan.

Eye protection

Wear protective goggles with side protection if there is a risk of splashing.

Skin protection

Wear industrial clothing.

Environmental exposure controls

See data in Point 6

9. Physical and chemical properties

Appearance

Form	liquid
Color	green
Odor	fatty

Important data on health and environmental protection and safety

Basic safety-relevant parameters

pH-value (g/l water, 20°C)	not applicable	
Melting range	< -40	°C
Boiling point/boiling range	not determined	°C
Flammability	> 290	°C
Ignition temperature	not applicable	°C
Vapour pressure (20°C)	< 1	hPa
Density (20°C)	917	kg/m ³
Water solubility (20°C)	low	g/l
Partition coefficient: n-octanol/water (log P _{ow})	not determined	

Viscosity, kinematic	(40°C)	46	mm ² /s
----------------------	--------	----	--------------------

10. Stability and reactivity

Conditions to avoid

Substance is stable when handled for the intended purpose under the usual conditions of use.
Observe notes on storage.

Materials to avoid

Powerful oxidizing agents

Hazardous decomposition products

In the event of fire: CO_x

11. Toxicological information

General remarks

Acute toxicity, skin irritation, mucosal irritation, genotype change potential and skin-sensitization of the mixture were assessed on the basis of the data available for the individual components. To some extent, there are gaps in the data for individual components.

Practical experience

Our experience so far has shown that when the basic rules of industrial protection and industrial hygiene are observed and the product is handled in accordance with the intended purpose, no detriment to health is to be expected. Splashes in the eyes and prolonged skin contact are to be avoided.

12. Ecological information

Ecotoxicity

The product not to get into surface waters, the sewage system or the soil.

Other information

When the product has been dissolved in water it is very easily biologically degradable. As a result of its low water solubility large quantities may be eliminated by an oil or grease separator.

13. Disposal considerations

Disposal / waste (product)

Pass to approved waste-disposal company with due observance of official local regulations.

EU waste codes

12 01 19 easily biologically degradable metalworking lubricants

Packing

Completely empty containers. Pass to approved waste-disposal company. Drums and containers can be reconditioned. Cleaning by recycling company.

14. Transport information

Not a hazardous substance as defined by ADR, RID, IMDG, ADN, ICAO/IATA

15. Regulatory information

Other EC regulations

Details concerning Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL): none

National regulations (Germany)

Water endangerment class

WGK 1 (slight water endangerment, VwVwS – Administrative Register – Substances hazardous to water - Annex 4)

16. Other information

Updating service

Updated chapters are marked with an *.

Details are based on our present knowledge. They describe our products with reference to safety requirements and are therefore not to be interpreted as promising certain properties.