

SAFETY DATA SHEET

1. Identification

Product identifier UNIMET AS 260

Other means of identification

Article-No. 40241150

Recommended use Industrial use. Water-miscible metal working fluid. None known.

Recommended restrictions

Manufacturer/Supplier

Oemeta, Inc.

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Further information obtainable from

Oemeta Service

Phone: (+49) 4122-924-132 Fax: (+49) 4122-924-157

Emergency Telephone

Number

Toll Free Access within USA, Canada, Mexico: 1.866.519.4752 (24h)

Outside of the US please call: (+1) 760 476 3962 (24h)

Please provide the following code: 333910

2. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. Not classified. **OSHA** defined hazards

Label elements

None. **Hazard symbol** Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Wash hands after handling. Response

Storage Store away from incompatible materials.

Dispose of waste and residues in accordance with local authority requirements. **Disposal**

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures



Chemical name	Common name and synonyms	CAS number	%
Distillates, petroleum, hydrotreated light naphthenic		64742-53-6	20 - < 30
Alcohols, C16-18 and C18-unsatd., ethoxylated		68920-66-1	1 - < 5
Amides, C12-18 and C18-unsatd., N-(hydroxyethyl), ethoxylated		157707-44-3	1 - < 5
Ethanol, 2-(2-butoxyethoxy)-		112-34-5	1 - < 5
Ethanol, 2,2'-(methylimino)bis-		105-59-9	1 - < 5
Boric acid		10043-35-3	1 - < 3
Other components below reportable	levels		60 - < 70

^{#:} This substance has been assigned Community workplace exposure limit(s).

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and delayed

Indication of immediate

medical attention and special treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Hazardous combustion

Combustion products may include the following: Carbon oxides (CO, CO2); nitrogen oxides (NO,

products NO2).

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment and precautions for firefighters

Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods

Fire-fighting

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

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Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

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7. Handling and storage Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value	Form	
Distillates, petroleum, hydrotreated light naphthenic (CAS 64742-53-6)	PEL	5 mg/m3	Mist.	

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Distillates, petroleum, hydrotreated light naphthenic (CAS 64742-53-6)	TWA	5 mg/m3	Inhalable fraction.
Ethanol, 2-(2-butoxyethoxy)- (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide to Cher	mical Hazards		
Components	Type	Value	Form
Distillator in steel access	OTEL	10	B.4° - 1

Componente	. , , , ,	7 41.410		
Distillates, petroleum, hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

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Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier. Recommendation: 706 Lapren (KCL, Germany) with a layer thickness of at least 0.6 mm. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has

therefore to be checked prior to the application.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Physical state Liquid.
Color Tan.
Odor Mild.

Odor threshold Not available.
pH 9.9 DIN 51369
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

pernower naminability of explosive

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor densityNot available.Relative densityNot available.

Solubility (water) Completely miscible.

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 1010.00 kg/m3 DIN 51757

Explosive properties Not explosive.

Kinematic viscosity 30 mm2/s DIN 53018

Oxidizing properties Not oxidizing.

VOC (concentrate) 58 g/I ASTM E 1868-10

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10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions. **Conditions to avoid** Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contactNo adverse effects due to skin contact are expected. **Eye contact**Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Chasias

Rabbit

Symptoms related to the physical, chemical and toxicological characteristics

Componente

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Components	Species	lest Results	
Alcohols, C16-18 and C1	8-unsatd., ethoxylated (CAS 68920-66-1)		
<u>Acute</u>			
Dermal			
Liquid			

LD50
Oral
Liquid

LD50 Rat > 2000 mg/kg

Boric acid (CAS 10043-35-3)

Acute Oral Solid

LD50 Rat > 2600 mg/kg

Distillates, petroleum, hydrotreated light naphthenic (CAS 64742-53-6)

Acute
Dermal
Liquid

LD50 Rabbit > 5000 mg/kg

Inhalation

Mist

LC50 Rat > 5.53 mg/l, 4 hours Saturated Vapor

Concentration

Toot Dooulto

> 2000 mg/kg

Oral *Liquid*

LD50 Rat > 5000 mg/kg

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Test Results Components **Species**

Ethanol, 2-(2-butoxyethoxy)- (CAS 112-34-5)

Acute Dermal Liauid

LD50 Rabbit 2764 mg/kg

Oral Liquid

LD50 Mouse 2410 mg/kg

Ethanol, 2,2'-(methylimino)bis- (CAS 105-59-9)

Acute Dermal Liquid

LD50 Rabbit 5990 mg/kg

Oral Liquid

LD50 Rat 4680 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Not classified. Animal ingestion studies in several species, at high doses, indicate that boric acid Reproductive toxicity

> can cause reproductive and developmental effects. This product is not considered to pose a reproduction/developmental risk to humans. For further information, please refer to section 15.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Not available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose in accordance with all applicable regulations. Local disposal regulations

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Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulationsThis product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

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US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Boric acid (CAS 10043-35-3)

Distillates, petroleum, hydrotreated light naphthenic (CAS 64742-53-6)

US. Massachusetts RTK - Substance List

Distillates, petroleum, hydrotreated light naphthenic (CAS 64742-53-6)

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material contains chemicals

currently listed in a concentration below 0.1%: Ethylene glycol (CAS 107-21-1).

Further information Weight of evidence: In the European Union, boric acid containing products are not classified as

toxic for reproduction if the content of boric acid is below 5.5% (Regulation (CE) 1272/2008 and

adaptations to technical progress).

16. Other information, including date of preparation or last revision

 Issue date
 05-11-2015

 Revision date
 05-10-2016

Version # 3.0
HMIS® ratings Health: 0

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 0

Flammability: 1 Instability: 0

NFPA ratings



Ratings of aqueous dilution HMIS rating when diluted to 20% or less: Health: 0, Flammability: 0, Physical Hazard: 0.

NFPA rating when diluted to 20% or less: Health: 0, Flammability: 0, Instability: 0.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. The editor cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product,

and to assume liability for loss, injury, damage or expense due to improper use.

Approved. TR08062016

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