

SAFETY DATA SHEET

1. Identification

Product identifier ESTRAMET S 77

Other means of identification

Article-No. 40898800

Recommended use Water-miscible metal working fluid. Industrial use.

Recommended restrictions None known.

Manufacturer/Supplier

Oemeta, Inc.

5655 West 610 South Salt Lake City, UT 84104 Phone: (+1) 801 953-0134 Fax: (+1) 801 953-0446

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 Serious eye damage/eye irritation Category 2A

Sensitization, skin Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement May cause an allergic skin reaction. Causes serious eye irritation.

Precautionary statement

Prevention Avoid breathing mist/vapors. Wash thoroughly after handling. Contaminated work clothing must

not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves.

Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash

contaminated clothing before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.



Supplemental information

4.2% of the mixture consists of component(s) of unknown acute dermal toxicity. 4.2% of the mixture consists of component(s) of unknown acute inhalation toxicity. Not classified as hazardous according to GHS when diluted to 10% or less.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-(2-butoxyethoxy)ethanol		112-34-5	1 - < 5
Ethanol, 2,2'-(methylimino)bis-		105-59-9	1 - < 5
Sulfonic acids, petroleum, sodium salts		68608-26-4	1 - < 5
Amides, C12-18 and C18-unsatd., N-(hydroxyethyl), ethoxylated		68603-39-4	1 - < 3
ethane-1,2-diol		107-21-1	0.1 - < 1
1,2-Benzisothiazol-3(2H)-one		2634-33-5	0.1 - < 0.5
Other components below reportable levels			80 - < 90

4. First-aid measures

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

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

symptoms/effects, acute and vision. May cause an allergic skin reaction. Dermatitis. Rash. **delayed**

Indication of immediate medical attention and special

treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Hazardous combustion

products
Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

protect themselves. Wash contaminated clothing before reuse.

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Combustion products may include the following: carbon oxides (CO, CO2); nitrogen oxides (NO, NO2); sulfur oxides (SO2, SO3).

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

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

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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. 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. 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.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged

exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe

good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Recommended storage temperature: between 10 and 30 °C.

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
2-(2-butoxyethoxy)ethanol (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
ethane-1,2-diol (CAS 107-21-1)	STEL	10 mg/m3	Aerosol, inhalable.
		50 ppm	Vapor fraction
	TWA	25 ppm	Vapor fraction

Biological limit values Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation 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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Wear appropriate chemical resistant gloves. Recommendation: 706 Lapren (KCL, Germany) with a **Hand protection**

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.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

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

aerosols/dust are formed, use suitable combination filter for gases/vapours of organic compounds

and toxic particles (e.g. type A2-P2; EN 14387).

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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. Contaminated work clothing should not be allowed out of the

workplace.

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9. Physical and chemical properties

Physical state
Color
Amber.

Odor
Amine-like.

Odor threshold
PH
9 - 10 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

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility (water) Completely miscible.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 960.00 - 990.00 kg/m³ DIN 51757

Explosive properties Not explosive.

Kinematic viscosity 45 - 75 mm²/s DIN EN 16896 (104 °F (40 °C))

Oxidizing properties Not oxidizing.

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 hazardousNo dangerous reaction known under conditions of normal use.

reactions

11. Toxicological information

Information on likely routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

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

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Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	Not known.

Components	Species	Test Results
2-(2-butoxyethoxy)ethanol	I (CAS 112-34-5)	
Acute		
Dermal		
Liquid		
LD50	Rabbit	2764 mg/kg
Inhalation		
Vapor		
LC50	Rat	> 29 mg/l, 2 hours
Oral		•
Liquid		
, LD50	Mouse	2410 mg/kg
	Rat	3305 mg/kg
Amides C12-18 and C18-	unsatd., N-(hydroxyethyl), ethoxylated	
Acute	unsata., 14-(nyaroxyothyr), othoxyratot	(0,10 00000 00 4)
<u> </u>		
Liquid		
LD50	Rat	> 2000 mg/kg
ethane-1,2-diol (CAS 107-		2000 mg/kg
Acute	21-1)	
<u>Aeute</u> Dermal		
Liquid		
LD50	Mouse	> 3500 mg/kg
	Rat	> 3500 mg/kg
lub alatia u	Nat	> 5500 mg/kg
Inhalation <i>Mist</i>		
LC50	Rat	> E mail A hours
LOJU	Nat	> 5 mg/l, 4 hours
		2.5 mg/l, 6 hours
Oral		
Liquid		
LDL0	Human	1600 mg/kg
Ethanol, 2,2'-(methylimino)bis- (CAS 105-59-9)	
<u>Acute</u>		
Dermal		
Liquid	D-l-l-#	5000 "
LD50	Rabbit	5990 mg/kg
Oral		
Liquid	D .	
LD50	Rat	4680 mg/kg

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Components Species Test Results

Sulfonic acids, petroleum, sodium salts (CAS 68608-26-4)

Acute Dermal Liquid

LD50 Rabbit > 2000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

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.

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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 regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are identified as active on the U.S. EPA TSCA Inventory List.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

 Chemical name
 CAS number
 % by wt.

 ethane-1,2-diol
 107-21-1
 0.1 - < 1</td>

Other federal regulations

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

ethane-1,2-diol (CAS 107-21-1)

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

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

US state regulations

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

(a))

ethane-1,2-diol (CAS 107-21-1)

US. California Proposition 65

This product can expose you to ethane-1,2-diol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Developmental toxin

ethane-1,2-diol (CAS 107-21-1) Listed: June 19, 2015

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

Issue date 07-14-2022 **Revision date** 07-15-2022

Version # 2.1

HMIS® ratingsHealth: 2
Flammability: 0

Physical hazard: 0

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NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



Ratings of aqueous dilution HMIS® ratings when diluted to 10% or less: Health: 0, Flammability: 0, Physical Hazard: 0.

NFPA ratings when diluted to 10% or less: Health: 0, Flammability: 0, Instability: 0.

List of abbreviations AICIS: Australian Inventory of Industrial Chemicals.

DisclaimerThe 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. TR00000000

Material name: ESTRAMET S 77