

SAFETY DATA SHEET

1. Identification

Product identifier NOVAMET 110

Other means of identification

Article-No. 40870340

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

Recommended restrictions

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** Not classified. **OSHA** defined hazards Not classified.

Label elements

Hazard symbol None. Signal word None.

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

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

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

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	5 - < 10
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 le	evels		50 - < 60

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.

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

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

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.

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

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 During fire, gases hazardous to health may be formed.

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

Fire-fighting

equipment/instructions Specific methods

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

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

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

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.

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Form

Mist.

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

Value

of the SDS).

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. OSHA Table Z-1 Limits for Air Contam	inants (29 CFR 1910.1000)
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Type

TWA

Components	Туре	Value	Form	
Distillates, petroleum, hydrotreated light	PEL	5 mg/m3	Mist.	
naphthenic (CAS				

64742-53-6)

Components

US. ACGIH Threshold Limit Values

· P · · · ·	71		
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 Chemical Hazards

US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Туре	Value	Form	
Distillates, petroleum, hydrotreated light naphthenic (CAS 64742-53-6)	STEL	10 mg/m3	Mist.	

Biological limit values

No 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.

5 mg/m3

Individual protection measures, such as personal protective equipment

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

Skin protection

Hand protection Wear appropriate chemical resistant gloves. 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

Liquid. **Physical state** Color Yellow.

Characteristic. Odor **Odor threshold** Not available. 10.2 DIN 51369 Not available. Melting point/freezing point Not available. Initial boiling point and boiling

range

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure Not available. Not available. Vapor density Not available. Relative density

Completely miscible. Solubility (water)

Partition coefficient

(n-octanol/water)

Not available.

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity**

Other information

973.00 kg/m3 DIN 51757 **Density**

Not explosive. **Explosive properties**

36 mm²/s DIN 53018 (104 °F (40 °C)) Kinematic viscosity

Oxidizing properties Not oxidizing.

112 g/I ASTM E1868-10 VOC (concentrate)

10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability**

Conditions to avoid Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

No hazardous decomposition products are known.

products

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contactBased on available data, the classification criteria are not met.Eye contactBased on available data, the classification criteria are not met.IngestionBased on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Alcohols, C16-18 and C18	-unsatd., ethoxylated (CAS 68920-66-1)	
<u>Acute</u>		
Dermal		
Liquid		
LD50	Rabbit	> 2000 mg/kg
Oral		
Liquid		
LD50	Rat	> 2000 mg/kg
Boric acid (CAS 10043-35	-3)	
<u>Acute</u>		
Dermal		
Solid		
LD50	Rabbit	> 2000 mg/kg
Oral		
Solid		
LD50	Rat	> 2600 mg/kg
Distillates, petroleum, hydi	rotreated light naphthenic (CAS 64742-53	-6)
<u>Acute</u>		
Dermal		
Liquid		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
Mist		
LC50	Rat	> 5.53 mg/l, 4 hours Saturated Vapor Concentration
Oral		
Liquid		
LD50	Rat	> 5000 mg/kg
Ethanol, 2-(2-butoxyethoxy	y)- (CAS 112-34-5)	
Acute		
Dermal		
Liquid		
LD50	Rabbit	2764 mg/kg

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Components	Species	Test Results
Oral		
Liquid		
LD50	Mouse	2410 mg/kg
	Rat	3305 - 3384 mg/kg
Ethanol, 2,2'-(methylimino))bis- (CAS 105-59-9)	
<u>Acute</u>		
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 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 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

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

Local disposal regulations Dispose in accordance with all applicable regulations.

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

disposal company.

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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

the IBC Code

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

15. Regulatory information

US federal regulations This product is not known to be 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.

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)

Nο

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

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

(SDWA)

Not regulated.

Food and Drug

Administration (FDA)

Not regulated.

US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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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. California Proposition 65

Not Listed.

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
 06-06-2018

 Revision date
 08-10-2020

Version # 1.3

HMIS® ratings Health: 0

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 0

Flammability: 1 Instability: 0

NFPA ratings



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

NFPA ratings 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. IF10082020

Material name: NOVAMET 110 SDS US