



SAFETY DATA SHEET

Issue Date 01-Jun-2015

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Version 2

1. IDENTIFICATION

Product identifier

Product Name UNIGLAZE P876C COPPER

Other means of identification

Product Code UGLZP876C

UN/ID no. UN1993

Synonyms UGLZP876C01, UGLZP876C03, UGLZP876C04, UGLZP876C05, UGLZP876C07, UGLZP876C08, UGLZP876C09, UGLZP876C10, UGLZP876C12, UGLZP876C13, UGLZP876C14, UGLZP876C15, UGLZP876C16, UGLZP876C17, UGLZP876C19, UGLZP876C20, UGLZP876C21, UGLZP876C22, UGLZP876C23, UGLZP876C33, UGLZP876C35, UGLZP876C55

Recommended use of the chemical and restrictions on use

Recommended Use Restricted to professional users.

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Rutland Group
10021 Rodney Street
Pineville, NC 28134
Tel: 704-553-0046

E-mail address product_safety@rutlandinc.com

Emergency telephone number

Emergency Telephone INFOTRAC 1-352-323-3500

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Flammable liquids	Category 3

Label elements



Emergency Overview

Danger

Hazard statements

Harmful if swallowed
 May cause an allergic skin reaction
 May cause genetic defects
 May cause cancer
 Flammable liquid and vapor



Appearance viscous

Physical state liquid

Odor Aromatic

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Use explosion-proof electrical/ventilating/lighting/./? /equipment

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment (see .? on this label)
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth
 In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful in contact with skin
 Causes mild skin irritation
 Very toxic to aquatic life with long lasting effects
 Very toxic to aquatic life

Unknown acute toxicity 62.1% of the mixture has not undergone testing for acute toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
EPOXY RESIN	25036-25-3	15 - 40	*
COPPER	7440-50-8	10 - 30	*
SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC	64742-95-6	5 - 10	*
2-BUTOXYETHANOL	111-76-2	3 - 7	*
1 METHOXY 2 PROPANOL ACETATE	108-65-6	3 - 7	*
2-(2-Butoxyethoxy)ethyl acetate	124-17-4	1 - 5	*
1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 5	*
NAPHTHA (PETROLEUM) HEAVY AROMATIC	64742-94-5	1 - 5	*
CARBON BLACK	1333-86-4	0.1 - 1	*
DIPENTENE	138-86-3	0.1 - 1	*
NAPHTHALENE	91-20-3	0.1 - 1	*
CUMENE	98-82-8	<0.1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

General advice	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.
Eye contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
Skin contact	Wash skin with soap and water.
Inhalation	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Keep victim warm and quiet.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO₂, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams. Move containers from fire area if you can do it without risk.

Unsuitable extinguishing media CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard. Substance may be transported hot.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Other Information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. See section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place
Keep in properly labeled containers
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
COPPER 7440-50-8	TWA: 0.2 mg/m ³ fume TWA: 1 mg/m ³ Cu dust and mist	TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ dust and mist (vacated) TWA: 0.1 mg/m ³ Cu dust, fume, mist	IDLH: 100 mg/m ³ dust, fume and mist IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ dust and mist TWA: 0.1 mg/m ³ fume TWA: 1 mg/m ³ Cu dust and mist
2-BUTOXYETHANOL 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
1,2,4-TRIMETHYLBENZENE 95-63-6	-	-	TWA: 25 ppm TWA: 125 mg/m ³
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³ inhalable particulate matter	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
NAPHTHALENE 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³
CUMENE 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m ³ (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m ³ (vacated) S* S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m ³

NIOSH IDLH *Immediately Dangerous to Life or Health*

Chemical Name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick OEL
COPPER 7440-50-8	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³
2-BUTOXYETHANOL 111-76-2	TWA: 20 ppm TWA: 97 mg/m ³	TWA: 20 ppm	TWA: 20 ppm	TWA: 25 ppm TWA: 121 mg/m ³
1 METHOXY 2 PROPANOL ACETATE 108-65-6	-	TWA: 50 ppm STEL: 75 ppm	-	-
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m ³	TWA: 3 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³
NAPHTHALENE 91-20-3	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³ Skin	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 10 ppm	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³
CUMENE 98-82-8	TWA: 50 ppm TWA: 246 mg/m ³	TWA: 25 ppm STEL: 75 ppm	TWA: 50 ppm	TWA: 50 ppm TWA: 246 mg/m ³

Chemical Name	Newfoundland OEL	Northwest Territories OEL	Nova Scotia OEL	Nunavut OEL
COPPER 7440-50-8	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³ STEL: 0.6 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³ STEL: 0.6 mg/m ³
2-BUTOXYETHANOL 111-76-2	TWA: 20 ppm	TWA: 20 ppm STEL: 30 ppm	TWA: 20 ppm	TWA: 20 ppm STEL: 30 ppm
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³

NAPHTHALENE 91-20-3	TWA: 10 ppm	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	TWA: 10 ppm STEL: 15 ppm
CUMENE 98-82-8	TWA: 50 ppm	TWA: 50 ppm STEL: 74 ppm	TWA: 50 ppm	TWA: 50 ppm STEL: 74 ppm

Chemical Name	Ontario OEL	Prince Edward Island OEL	Quebec OEL	Saskatchewan OEL	Yukon OEL
COPPER 7440-50-8	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 0.6 mg/m ³ STEL: 3 mg/m ³	STEL: 0.2 mg/m ³ STEL: 2 mg/m ³ TWA: 0.2 mg/m ³ TWA: 1 mg/m ³
2-BUTOXYETHANOL 111-76-2	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm TWA: 97 mg/m ³	TWA: 20 ppm STEL: 30 ppm	STEL: 150 ppm STEL: 720 mg/m ³ TWA: 50 ppm TWA: 240 mg/m ³
1 METHOXY 2 PROPANOL ACETATE 108-65-6	TWA: 50 ppm TWA: 270 mg/m ³	-	-	-	-
CARBON BLACK 1333-86-4	TWA: 3 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	STEL: 7 mg/m ³ TWA: 3.5 mg/m ³
NAPHTHALENE 91-20-3	TWA: 10 ppm Skin	TWA: 10 ppm	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³	TWA: 10 ppm STEL: 15 ppm	STEL: 15 ppm STEL: 75 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³
CUMENE 98-82-8	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm TWA: 246 mg/m ³	TWA: 50 ppm STEL: 74 ppm	STEL: 75 ppm STEL: 365 mg/m ³ TWA: 50 ppm TWA: 245 mg/m ³

Other Information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls**Engineering Controls**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin and body protection

Wear protective gloves and protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Aromatic
Appearance	viscous	Odor threshold	No information available
Color	copper		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7	
Melting point/freezing point	No information available	
Boiling point / boiling range	149 °C / 300 °F	
Flash point	52 °C / 126 °F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	1.26	
Water solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content	<600 (theoretical) g/L
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
SOLVENT NAPHTHA (PETROLEUM) LIGHT AROMATIC 64742-95-6	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
2-BUTOXYETHANOL 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h = 486 ppm (Rat) 4 h
1 METHOXY 2 PROPANOL ACETATE 108-65-6	= 8532 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	= 6500 mg/kg (Rat)	= 14500 mg/kg (Rabbit)	= 72500 mg/m ³ (Rat) 4 h
1,2,4-TRIMETHYLBENZENE 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
NAPHTHA (PETROLEUM) HEAVY AROMATIC 64742-94-5	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m ³ (Rat) 4 h
CARBON BLACK 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
DIPENTENE 138-86-3	= 5300 mg/kg (Rat)	-	-
NAPHTHALENE 91-20-3	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	(= 1120 mg/kg (Rabbit) > 20 g/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h
CUMENE 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h = 39000 mg/m ³ (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-BUTOXYETHANOL 111-76-2	A3	Group 3	-	-
CARBON BLACK 1333-86-4	A3	Group 2B	-	X
NAPHTHALENE 91-20-3	A3	Group 2B	Reasonably Anticipated	X
CUMENE 98-82-8	-	Group 2B	Reasonably Anticipated	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Not classifiable as a human carcinogen

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)
 X - Present

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic toxicity	May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.
Target Organ Effects	blood, Central nervous system, Eyes, Hematopoietic System, kidney, liver, Respiratory system, Skin.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	1828 mg/kg
ATEmix (dermal)	2842 mg/kg
ATEmix (inhalation-gas)	No information available
ATEmix (inhalation-dust/mist)	6.2 mg/l
ATEmix (inhalation-vapor)	No information available mg/l

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

Ecotoxicity

Very toxic to aquatic life with long lasting effects

57.6 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging Do not reuse container.

US EPA Waste Number D001 U055 U140 U165 U239

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
XYLENE 1330-20-7	-	Included in waste stream: F039	-	U239
NAPHTHALENE 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145	-	U165
CUMENE 98-82-8	-	-	-	U055
ETHYL BENZENE 100-41-4	-	Included in waste stream: F039	-	-
ISOBUTYL ALCOHOL 78-83-1	U140	Included in waste streams: F005, F039	-	U140

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
NAPHTHALENE 91-20-3	-	-	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	-

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
COPPER 7440-50-8	Toxic
NAPHTHALENE 91-20-3	Toxic
CUMENE 98-82-8	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

UN/ID no.	UN1993
Proper shipping name	Flammable liquids, n.o.s.
Hazard Class	3
Packing Group	III
Reportable Quantity (RQ)	Copper: RQ kg= 15133.33
Special Provisions	B1, B52, IB3, T4, TP1, TP29
Marine pollutant	This product contains a chemical which is listed as a severe marine pollutant according to DOT.
Description	UN1993, Flammable liquids, n.o.s. (1 METHOXY 2 PROPANOL ACETATE, 1,2,4-TRIMETHYLBENZENE), Marine pollutant, 3, III, RQ
Emergency Response Guide Number	128

TDG

UN/ID no.	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
Marine pollutant	This product contains a chemical which is listed as a severe marine pollutant according to TDG.
Description	UN1993, Flammable liquid, n.o.s. (1 METHOXY 2 PROPANOL ACETATE, 1,2,4-TRIMETHYLBENZENE), Marine pollutant, 3, III

MEX

UN/ID no.	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
Description	UN1993, Flammable liquid, n.o.s. (1 METHOXY 2 PROPANOL ACETATE, 1,2,4-TRIMETHYLBENZENE), 3, III

ICAO (air)

UN/ID no.	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
Special Provisions	A3
Description	UN1993, Flammable liquid, n.o.s. (1 METHOXY 2 PROPANOL ACETATE, 1,2,4-TRIMETHYLBENZENE), 3, III

IATA

UN/ID no.	UN1993
Hazard Class	3
Packing Group	III
ERG Code	3L
Special Provisions	A3
Description	UN1993, Flammable liquid, n.o.s. (1 METHOXY 2 PROPANOL ACETATE, 1,2,4-TRIMETHYLBENZENE), 3, III

IMDG

UN/ID no.	UN1993
Hazard Class	3
Packing Group	III
EmS-No.	F-E, S-E
Special Provisions	223, 274, 955
Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO
Description	UN1993, Flammable liquid, n.o.s. (1 METHOXY 2 PROPANOL ACETATE,

1,2,4-TRIMETHYLBENZENE), Marine pollutant, 3, III, (52°C c.c.)

RID

UN/ID no.	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
Classification code	F1
Description	UN1993, Flammable liquid, n.o.s. (1 METHOXY 2 PROPANOL ACETATE, 1,2,4-TRIMETHYLBENZENE), Environmentally Hazardous, 3, III

ADR

UN/ID no.	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
Classification code	F1
Tunnel restriction code	(D/E)
Special Provisions	274, 601, 640E
Description	UN1993, Flammable liquid, n.o.s. (1 METHOXY 2 PROPANOL ACETATE, 1,2,4-TRIMETHYLBENZENE), Environmentally Hazardous, 3, III, (D/E)
Labels	3

ADN

Proper shipping name	Flammable liquid, n.o.s.
Hazard Class	3
Packing Group	III
Classification code	F1
Special Provisions	274, 601, 640E
Description	UN1993, Flammable liquid, n.o.s. (1 METHOXY 2 PROPANOL ACETATE, 1,2,4-TRIMETHYLBENZENE), Environmentally Hazardous, 3, III
Hazard label(s)	3
Limited quantity (LQ)	5 L
Ventilation	VE01

15. REGULATORY INFORMATION

International Inventories **On Inventory (Yes/No)**

TSCA	Yes
DSL/NDSL	Yes
EINECS/ELINCS	Yes
ENCS	No
IECSC	Yes
KECL	Yes
PICCS	Yes
AICS	Yes

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
COPPER - 7440-50-8	1.0
2-BUTOXYETHANOL - 111-76-2	1.0
FELDSPAR - 68476-25-5	1.0
2-(2-Butoxyethoxy)ethyl acetate - 124-17-4	1.0
1,2,4-TRIMETHYLBENZENE - 95-63-6	1.0
UMBER - 12713-03-0	1.0
NAPHTHALENE - 91-20-3	0.1

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
COPPER 7440-50-8	-	X	X	-
NAPHTHALENE 91-20-3	100 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
COPPER 7440-50-8	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
NAPHTHALENE 91-20-3	100 lb 1 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ

CUMENE 98-82-8	5000 lb	-	RQ 0.454 kg final RQ RQ 5000 lb final RQ RQ 2270 kg final RQ
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US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Proposition 65
CARBON BLACK - 1333-86-4	Carcinogen
NAPHTHALENE - 91-20-3	Carcinogen
CUMENE - 98-82-8	Carcinogen
ETHYL BENZENE - 100-41-4	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
COPPER 7440-50-8	X	X	X
2-BUTOXYETHANOL 111-76-2	X	X	X
FELDSPAR 68476-25-5	X	-	X
2-(2-Butoxyethoxy)ethyl acetate 124-17-4	X	-	X
1,2,4-TRIMETHYLBENZENE 95-63-6	X	X	X
UMBER 12713-03-0	X	-	X
CALCIUM OXIDE 1305-78-8	X	X	X
CARBON BLACK 1333-86-4	X	X	X
XYLENE 1330-20-7	X	X	X
NAPHTHALENE 91-20-3	X	X	X
ETHYL LACTATE 97-64-3	X	X	X
CUMENE 98-82-8	X	X	X
ETHYL BENZENE 100-41-4	X	X	X
ISOBUTYL ALCOHOL 78-83-1	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 2	Flammability 2	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 2	Flammability 2	Physical hazards 0	Personal protection X

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Revision Note

SDS sections updated 3 9

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet