

SAFETY DATA SHEET

Print Date Nov-20-2009

According to EC Directive 2001/58/EC Revision Date Nov-19-2009

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product code OSIMUCL

Product name Optimizer Flush (22394 - 440 ml, 22412 - 1L)

Eco Solvent Ink for Mutoh (OSI-MU) **Product description**

Manufacturer or supplier's details

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2. HAZARDS IDENTIFICATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Classification

Xn:R20/21 Xn - Harmful



Most Important Hazards

Harmful by inhalation and in contact with skin

Appearance Water-white **Emergency Overview** Harmful.

Eyes May cause eye irritation.

Skin Harmful in contact with skin. May be absorbed through the skin in harmful amounts. May

cause skin irritation and/or dermatitis.

Inhalation Harmful by inhalation. Avoid breathing vapors or mists. Inhalation of high vapour

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of vapours is irritating to the respiratory system, may cause throat pain

and cough.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No.	CAS-No	Weight %	Classification
Ethylene glycol monobutyl ether acetate	203-933-3	112-07-2	20 - 30	Xn;R20/21
Gamma Butyrolactone	202-509-5	96-48-0	10 - 20	Xn;R22
				Xi:R36

For the full text of the R-phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

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Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Get medical attention immediately if irritation

develops and persists.

Skin ContactWash off immediately with soap and plenty of water. Use a mild soap if available. Rinse

immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If

irritation develops, get medical attention.

Inhalation Move to fresh air. If breathed in, move person into fresh air. If breathing is irregular or

stopped, administer artificial respiration. Get medical attention immediately.

Ingestion If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre

immediately. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flammable Properties No information available

Suitable Extinguishing Media Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that

are appropriate to local circumstances and the surrounding environment.

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. Keep away from fire, sparks and heated surfaces. Keep container tightly closed. Cool containers / tanks with water spray. Fire or

intense heat may cause violent rupture of packages.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapours. Burning produces

obnoxious and toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Remove all sources of ignition. Heat, flames and sparks. Ventilate the area. Avoid breathing

dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas.

Keep people away from and upwind of spill/leak.

Methods for Cleaning Up Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13). Do not use sparking tools.

Environmental Precautions Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If

the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash

contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Take notice of labels and material safety data sheets for the working chemicals. Do

not take internally. Harmful or fatal if swallowed.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed

when not in use. Keep out of the reach of children. Keep away from heat and sources of

ignition. Take notice of the directions of use on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Component	European Union	The United Kingdom	France	Spain	Germany
Ethylene glycol monobutyl		STEL: 50 ppm TWA: 20	VME: 2 ppm VME: 13.3	Skin VLA-EC: 333	MAK: 10 ppm MAK: 66
ether acetate		ppm Skin	mg/m ³ VLCT: 30 ppm	mg/m ³ VLA-EC: 50 ppm	mg/m³ Skin Peak: 132
			VLCT: 199.8 mg/m ³	VLA-ED: 133 mg/m ³	mg/m³ Peak: 20 ppm
			Skin	VLA-ED: 20 ppm	

Component	Italy	Portugal	The Netherlands	Finland	Austria
Ethylene glycol monobutyl	TWA: 133 mg/m ³ TWA:	TWA: 20 ppm Skin	Skin STEL: 333 mg/m ³	TWA: 20 ppm TWA:	Skin STEL: 40 ppm
ether acetate	20 ppm STEL: 333	notation	TWA: 135 mg/m ³	130 mg/m ³ STEL: 50	STEL: 270 mg/m ³ MAK:
	mg/m ³ STEL: 50 ppm		_	ppm STEL: 330 mg/m ³	20 ppm MAK: 133
	Skin			Skin	mg/m³

Component	Switzerland	Poland	Norway	Ireland	Denmark
Ethylene glycol monobutyl	Skin STEL: 80 ppm	NDSCh: 300 mg/m ³	TWA: 65 mg/m ³ TWA:	TWA: 20 ppm TWA:	TWA: 130 mg/m ³ TWA:
ether acetate	STEL: 540 mg/m ³ MAK:	NDS: 100 mg/m ³	10 ppm Skin	133 mg/m ³ STEL: 50	20 ppm Skin
	20 ppm MAK: 135	_		ppm STEL: 333 mg/m ³	
	mg/m ³			Skin	

Occupational exposure controls

Engineering Measures

Use only with adequate ventilation. Use ventilation adequate to keep exposures below recommended exposure limits. See MSDS. In case of insufficient ventilation, wear suitable

respiratory equipment.

Personal Protective Equipment

Eye Protection

Respiratory Protection

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or

in case of product release (dust). Respirator with a vapour filter.

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid

contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

Skin Protection Wear protective gloves/clothing. Solvent-resistant apron and boots.

Hand Protection Nitrile rubber. Neoprene gloves.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash

stations and safety showers are close to the workstation location. Wash hands before eating, drinking, or smoking. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing.

Wear suitable gloves and eye/face protection.

Environmental exposure controls No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceWater-whitePhysical StateLiquidOdorCharacteristicOdor ThresholdNo information available

pHNo information availableAutoignition TemperatureNo information availableBoiling point/Boiling Range>149°C / >300°FMelting Point/RangeNo information availableFreezing Point/RangeNo information availableSolubilityNo information available

Evaporation Rate No information available Partition Coefficient (n- No information available octanol/water)

Vapour PressureNo information availableVapour DensityNo information availableFlammability (solid, gas)No information available

Flammability Limits in Air Flash Point 64°C / 147°F

 Upper No information available
 Method
 Setaflash closed cup

 Lower No information available

Photochemically Reactive No

Weight Per Gallon (lbs/gal) 8.091 Specific Gravity 0.97

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Conditions to Avoid Heat, flames and sparks.

Incompatible Products Strong acids. Strong bases. Strong oxidizing agents. Reducing agents.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide

(CO2). Carbon monoxide.

Possibility of Hazardous Reactions
None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol monobutyl ether	1600 mg/kg (Rat)	1480 mg/kg (Rabbit)	
acetate			
Gamma Butyrolactone	1540 mg/kg (Rat)		2.68 mg/L (Rat) 4 h

Chronic Toxicity

No information available

No information available Sensitisation **Neurological Effects** No information available **Mutagenic Effects** No information available **Reproductive Effects** No information available **Developmental Effects** No information available **Teratogenicity** No information available **Chronic Effects** No information available **Target Organ Effects** No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

We have no quantitative data concerning the ecological effects of this product. Environmental fate information is derived from consideration of the properties of the ingredients. Should not be released into the environment.

	Component	Freshwater Algae	Freshwater Fish	Water Flea
Ethylene glycol monobutyl ether 72 Hr EC50 Scenedesmus			48 Hr EC50 water flea: 37 mg/L	
acetate subspicatus: >500 mg/L			-	
Gamma Butyrolactone 72 Hr EC50 Sce		72 Hr EC50 Scenedesmus	96 Hr LC50 Leuciscus idus: 220-460	48 Hr EC50 Daphnia magna Straus:
		subspicatus: 360 mg/L; 96 Hr EC50	mg/L [static]	>500 mg/L
		Scenedesmus subspicatus: 79 mg/l		_

Persistence and Degradability

Bioaccumulation

No information available
No information available

BioaccumulationMobility in Environmental Media
No information available
No information available

Component	log Pow	
Ethylene glycol monobutyl ether acetate	1.51	
Gamma Butyrolactone	-0.566	

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of contents/container in accordance with local regulation.

Contaminated Packaging

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

disposal.

14. TRANSPORT INFORMATION

RID

Not classified as dangerous in the meaning of transport regulations

ADR

Not classified as dangerous in the meaning of transport regulations

IMDG/IMO

Not classified as dangerous in the meaning of transport regulations

ICAO/IATA

Not classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

Labelling

Contains Ethylene glycol monobutyl ether acetate

Symbol(s) Xn - Harmful

Xn

R -phrase(s)

R20/21 - Harmful by inhalation and in contact with skin

S -phrase(s)

S 2 - Keep out of the reach of children

S46 - If swallowed, seek medical advice immediately and show this container or label

S36/37 - Wear suitable protective clothing and gloves

International Inventories

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

REACH: Substances of Very High Concern (SVHC): Article 57 of Regulation (EC) No 1907/2006

Does NOT contain a listed substance

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R36 - Irritating to eyes

R22 - Harmful if swallowed

R20/21 - Harmful by inhalation and in contact with skin

Revision Date Nov-19-2009

Revision Summary New MSDS format

Disclaimer

The information provided in this 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