USINOV 2400 OR

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date: 27/01/2016 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Trade name : **USINOV 2400 OR**

Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only

Use of the substance/mixture : Aqueous machining fluid

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

IGOL FRANCE
614, rue de Cagny - CS 69003
80094 AMIENS CEDEX 3 - France
T +33 (0)3 22 50 22 22
msds@igol.com - www.igol.com

1.4. Emergency telephone number

United Kingdom	**National Poisons Information Service (Cardiff Centre)** Gwenwyn Ward, Wolfson Unit Penarth CF64 2XX Cardiff **0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS05

Signal word (CLP) : Danger

Hazardous ingredients : Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched; Sulfonic acids, petroleum, sodium salts

Hazard statements (CLP) : H318 - Causes serious eye damage

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methyldiethanolamine	(CAS No) 105-59-9 (EC no) 203-312-7 (EC index no) 603-079-00-5 (REACH-no) 01-2119488970-24	5 - 10	Eye Irrit. 2, H319
Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched	(CAS No) 69011-36-5 (EC no) 931-138-8	1 - 5	Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sulfonic acids, petroleum, sodium salts	(CAS No) 68608-26-4 (EC no) 271-781-5	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 4, H413
pyridine-2-thiol 1-oxide, sodium salt	(CAS No) 3811-73-2 (EC no) 223-296-5 (REACH-no) 01-2119493385-28	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)

Full text of H-statements: see section 16

Comments : Mixture of: water, salt, ester, additives

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Allow breathing of fresh air. If symptoms persist, call a physician.

First-aid measures after skin contact : Wash with plenty of soap and water.

First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids.

First-aid measures after ingestion : Do NOT induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after eye contact : Causes serious eye damage. Redness. Burns. Pain. Blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Carbon dioxide. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire-fighting to enter drains or water courses.

Protection during firefighting : Wear suitable protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Provide adequate ventilation.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into inert absorbent material. Clean spills promptly.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Hygiene measures : Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Store at room temperature. Keep away from sources of ignition - No smoking.

Storage temperature : 4 - 35 °C

Prohibitions on mixed storage : Strong oxidizing agents.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methyldiethanolamine (105-59-9)		
EU	IOELV TWA (mg/m³)	26 mg/m³

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Materials for protective clothing : Long sleeved protective clothing

Hand protection : Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Time of penetration is to be checked with the glove producer

Eye protection : Safety glasses

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : amber.

Odour : characteristic. slight.

Odour threshold : No data available

pH : 9,3

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : 0 °C

Boiling point : 100 °C

Flash point : Not applicable.

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1,015 g/cm³ (15°C)

Solubility : Emulsifiable in water.

Log Pow : No data available

Viscosity, kinematic : > 20,5 (22 - 32) cSt (40°C)

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

ATE CLP (oral)	2000,000 mg/kg
ATE CLP (dermal)	2000,000 mg/kg
ATE CLP (vapours)	20,000 mg/l/4h

methyldiethanolamine (105-59-9)	
LD50 oral rat	4680 mg/kg (OECD 401 method)
LD50 dermal rabbit	5990 mg/kg

Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched (69011-36-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Sulfonic acids, petroleum, sodium salts (68608-26-4)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
LD50 oral rat	1208 mg/kg
LD50 dermal rabbit	1800 mg/kg
LC50 inhalation rat (mg/l)	> 2 (≤ 20) mg/l/4h

Skin corrosion/irritation : Not classified
pH: 9,3

Serious eye damage/irritation : Causes serious eye damage.
pH: 9,3

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

USINOV 2400 OR	
Viscosity, kinematic	> 20,5 (22 - 32) mm²/s (40°C)

SECTION 12: Ecological information

12.1. Toxicity

USINOV 2400 OR	
LC50 fish 1	> 100 mg/l (96h)
EC50 Daphnia 1	> 100 mg/l (48h)
EC50 72h algae (1)	> 100 mg/l (72h)

methyldiethanolamine (105-59-9)	
LC50 fish 1	1466 mg/l (Leuciscus idus, 96h)
EC50 Daphnia 1	233 mg/l (Daphnia magna, 48h)
LC50 fish 2	1000 mg/l (Pimephales promelas, 96h)
ErC50 (algae)	> 100 mg/l (Scenedesmus subspicatus, 72h)

Poly(oxy-1,2-ethanediyl), a-tridecyl-w-hydroxy-, branched (69011-36-5)	
LC50 fish 1	1 - 10 mg/l (Cyprinus carpio,96h)
EC50 Daphnia 1	1 - 10 mg/l (Daphnia magna, 48h)
LC50 fish 2	1 - 10 mg/l (Leuciscus idus, 96h)
ErC50 (algae)	1 - 10 mg/l (Desmodesmus subspicatus, 72h)

Sulfonic acids, petroleum, sodium salts (68608-26-4)	
LC50 fish 1	> 100 mg/l (96h)
EC50 Daphnia 1	> 100 mg/l (48h)
EC50 72h algae (1)	> 100 mg/l (72h)

pyridine-2-thiol 1-oxide, sodium salt (3811-73-2)	
LC50 fish 1	0,00264 mg/l (Oncorhynchus mykiss)
EC50 Daphnia 1	0,0088 mg/l (Daphnia magna)
ErC50 (algae)	0,46 mg/l (Selenastrum capricornutum)

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code : 12 01 07* - mineral-based machining oils free of halogens (except emulsions and solutions)

SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
No dangerous good in sense of transport regulations.(ADR, RID, IMDG, IATA)				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

Carriage prohibited (ADN) : No

Not subject to ADN : No

- Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Training advice : Not to be used for any purpose other than the one the product was designed for.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

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