



MATERIAL SAFETY DATA SHEET (MSDS)

Product Name:	OXONIL LC	Document code:	PSJ-RD-FR-22-00
Chemical name:	Alkyl dimethyl aminoxide	Revision number:	00
Chemical class:	Aminoxide	Revision date:	

COMPANY IDENTIFICATION

Manufacturer: PADIDEH SHIMI JAM CO.

Tell: +98 21 88580000

Address: No.16, Western Fourth Golbarg St., Baharestan St., Dadman Blvd., TEHRAN, IRAN

HAZARDS IDENTIFICATION

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Hazardous to the aquatic environment, acute	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified	

Signal word	Danger
Hazard statement	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects

Precautionary statement

Prevention	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves. Wear eye/face protection
Response	Collect spillage. If swallowed: Call a poison center/doctor if you feel unwell. 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. Immediately call a poison center/doctor. Specific treatment (see this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse
Storage	Store away from incompatible materials
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations

COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent
lauryl dimethylaminoxide	1643-20-5	20 - 24%
myristyl dimethylaminoxide	3332-27-2	5 - 9 %
water	7732-18-5	67 - 71 %
Other components below reportable levels		0.09%

FIRST AID MEASURES

Eyes: 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 immediately.

Skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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

Ingestion: Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting.





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FIRST AID MEASURES

Most important symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel

FIRE FIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire-fighting equipment/instructions

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

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

General fire hazards

No unusual fire or explosion hazards noted

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. 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.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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 release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.





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HANDLING & STORAGE

Precautions for safe handling

Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). It is recommended that OXONIL CAC be stored in sealed containers and kept at temperatures 10-40 °C

EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits No exposure limits noted for ingredient(s).

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. Eye wash facilities and emergency shower must be available when handling this product.

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

Wear safety glasses with side shields (or goggles) and a face shield.

Hand protection Skin protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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.

PHYSICAL & CHEMICAL PROPERTIES

Appearance Physical state	Liquid.
Form	Liquid.
Color	yellow.
pH	6.00 - 8.00
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	> 201 °F (> 93.9 °C) PMCC
Evaporation rate	Estimated slower than ethyl ether.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Flammability limit - upper(%)	NOT DETERMINED.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Estimated lighter than air.
Relative density	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	18 cps (@ 25 C)
Density	8.05 lbs/gal @ 25C
Pour point	10 °F (-12.2 °C)





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STABILITY & REACTIVITY

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitrous acid and other nitrosating agents

Hazardous decomposition products

Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons

TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful
Skin contact	Causes severe skin burns
Eye contact	Causes serious eye damage.
Ingestion	Harmful if swallowed
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain

Information on toxicological effects

Acute toxicity	Harmful if swallowed
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/ eye irritation	Causes serious eye damage
Respiratory or skin sensitization Respiratory sensitization	Not available
Skin sensitization	This product is not expected to cause skin sensitization. Causes skin irritation
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects
Specific target organ toxicity single exposure	Not applicable
Specific target organ toxicity repeated exposure	Not applicable
Aspiration hazard	Not applicable
Chronic effects	Prolonged inhalation may be harmful

ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Persistence and degradability: Expected to be readily biodegradable.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component

DISPOSAL CONSIDERATIONS

Disposal instructions	Dispose of contents/container in accordance with local/ regional/ national/ international 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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.





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TRANSPORT INFORMATION

NOTE DOT: Not Regulated as a dangerous good.

IATA	UN-No	3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S., (Amine Oxide)	
Hazard Class	9	
Packing Group	III	
Environmental hazard	yes	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	

IMDG	UN-No	3082
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S., (Amine Oxide)	
Hazard Class	9	
Packing Group	III	
Marine Pollutant	yes	
Environmental hazard	Read safety instructions, SDS and emergency procedures before handling.	
EmS No.	Not available.	

Transport in bulk according to: Not available.

REGULATORY INFORMATION

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
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Toxic Substances Control Act (TSCA)

CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.
SARA 302 Extremely hazardous substance	No
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)	Not listed.
SARA 311/312 Hazardous chemical	Yes
SARA 313 (TRI reporting)	Not regulated

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

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

US state regulations

US. Massachusetts RTK - Substance List	Not regulated
US. Rhode Island RTK	Not regulated

US. California Proposition 65	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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Inventories

All components of this product are listed on the following inventories: U.S.A.(TSCA), Canada(DSL), Europe (EINECS/ELINCS/Polymer/NLP), Australia(AICS), Japan(ENCS), China (EICS), Korea(ECL), Philippines(PICCS)

Reportable Quantity (RQ) of this product is 2000 pounds based upon _Diethanolamine(111-42-2) which yielded the lowest resultant RQ according to the following formula:
CERCLA ingredient RQ / % of that ingredient in the product.





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OTHER INFORMATION

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