

# SAFETY DATA SHEET



Isopropylamine  
10350

Version / Revision  
Supersedes Version

4.01  
4.00\*\*\*

Revision Date  
Issuing date

14-Dec-2020  
14-Dec-2020

## SECTION 1: Identification

### 1.1. Product identifier

Identification of the  
substance/preparation

# Isopropylamine

CAS-No

75-31-0

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

Use of the Substance /  
Preparation

Intermediate

Uses advised against

None

### 1.3. Details of the supplier of the safety data sheet

Supplier

**OQ Chemicals Corporation**  
15375 Memorial Drive  
West Memorial Place I  
Suite 300  
Houston, TX 77079  
USA  
Phone +1 346 378 7300

Product Information

Product Stewardship  
FAX: +49 (0)208 693 2053  
email: sc.psq@oq.com

### 1.4. Emergency telephone number

Emergency telephone number NCEC +1 202 464 2554

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

This substance is classified in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

Acute oral toxicity Category 3, H301

Acute dermal toxicity Category 3, H311

Acute inhalation toxicity Category 3, H331

Skin corrosion/irritation Category 1A, H314

Serious eye damage/eye irritation Category 1, H318

Target Organ Systemic Toxicant - Single exposure Category 3, H335

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Flammable liquid Category 1, H224  
Environmental hazard Aquatic Acute 3; H402

**OSHA Specified Hazards** Not applicable.

## 2.2. Label elements

Labeling according to §1910.1200 (GHS-US labeling).

### Hazard symbol(s)



**Signal word**

**Danger**

### Hazard statements

H224: Extremely flammable liquid and vapor.  
H301: Toxic if swallowed.  
H311: Toxic in contact with skin.  
H331: Toxic if inhaled.  
H314: Causes severe skin burns and eye damage.  
H335: May cause respiratory irritation.  
H402: Harmful to aquatic life

### Precautionary statements

#### Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233: Keep container tightly closed.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242: Use non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well ventilated area.  
P273: Avoid release to the environment.  
P260: Do not breathe gas/mist/vapours.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P321: Specific treatment: IF ON SKIN: Wash off with 3% acetic acid followed by large amounts of plain water for at least 5 min as a final step.  
P361: Take off immediately all contaminated clothing and wash it before reuse.  
P363: Wash contaminated clothing before reuse.

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P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P310: Immediately call a POISON CENTER/doctor.

## Storage

P403 + P235: Store in a well ventilated place. Keep cool.  
P405: Store locked up.

## Disposal

P501: Dispose of contents/container in accordance with local regulation.

## 2.3. Other hazards

Vapours may form explosive mixture with air

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback

Components of the product may be absorbed into the body by inhalation, ingestion and through the skin

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Component	CAS-No	Concentration (%)
Isopropylamine	75-31-0	> 99,7

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Keep at rest. Aerate with fresh air. Call a physician immediately. Symptoms of poisoning may develop many hours after exposure.

#### Skin

Wash off with 3% acetic acid followed by large amounts of plain water for at least 5 min as a final step. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

#### Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

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

#### Main symptoms

shortness of breath, convulsions, cough, hypertensive effect, narcosis, unconsciousness, discomfort, nausea.

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## Special hazard

Stomach perforation, Lung oedema, Pneumonia, Dermatitis.

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

### General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat as an alkaline substance (similar to ammonia). If ingested, irrigate the stomach. Treat skin and mucous membranes with antihistamine and corticoids. In case of lung irritation, first treatment with cortisone spray. Symptoms may be delayed. Later control for pneumonia and lung oedema.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water spray

#### Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

nitrogen oxides (NO<sub>x</sub>)

hydrogen cyanide (hydrocyanic acid)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback

Vapours may form explosive mixture with air

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

#### Precautions for firefighting

Cool containers / tanks with water spray. Water run-off and vapor cloud may be corrosive. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation,

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especially in confined areas. Keep away from heat and sources of ignition.  
For emergency responders: Personal protection see section 8.

## 6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

## 6.3. Methods and material for containment and cleaning up

### Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

### Methods for cleaning up

Soak up with inert absorbent material. DO NOT use combustible materials such as sawdust. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

## 6.4. Reference to other sections

For personal protective equipment see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Do not use compressed air for filling, discharging or handling. Refill and handle product only in closed system. Provide sufficient air exchange and/or exhaust in work rooms.

#### Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

#### Advice on the protection of the environment

See Section 8: Environmental exposure controls.

#### Incompatible products

acids  
Halogenated hydrocarbon  
strong oxidizing agents  
acid anhydrides  
acid chlorides

### 7.2. Conditions for safe storage, including any incompatibilities

#### Advice on protection against fire and explosion

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Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be available. Ground and bond containers when transferring material. Vapour is heavier than air and can travel considerable distance to a source of ignition and flashback. Vapours may form explosive mixture with air. The pressure in sealed containers can increase under the influence of heat.

### Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care. Handle under nitrogen, protect from moisture. Containers, storage tanks or drums are having temperature dependent pressure. Vessels with higher temperature must be depressurised into vent gas systems or handled under ventilation.

### Suitable material

mild steel, stainless steel

### Unsuitable material

Aluminium, copper, zinc, Tin, lead, including their alloys

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure limits United States of America

#### US ACGIH

Component	TWA (mg/m <sup>3</sup> )	TWA (ppm)	STEL (mg/m <sup>3</sup> )	STEL (ppm)
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#### US OSHA Z-1

Component	Ceiling (mg/m <sup>3</sup> )	Ceiling (ppm)	PEL (mg/m <sup>3</sup> )	PEL (ppm)	Skin Designation
Isopropylamine CAS: 75-31-0			12	5	

#### Note

For details and further information please refer to the original regulation.

### 8.2. Exposure controls

#### Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

#### Individual protection measures, such as personal protective equipment

#### General industrial hygiene practice

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Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

## Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

## Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

## Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

<b>Suitable material</b>	butyl-rubber
<b>Evaluation</b>	according to EN 374: level 2
<b>Glove thickness</b>	approx 0,3 mm
<b>Break through time</b>	approx 20 min

<b>Suitable material</b>	polyvinylchloride
<b>Evaluation</b>	Information derived from practical experience
<b>Glove thickness</b>	approx 0,8 mm

## Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

## Respiratory protection

Respirator with filter for ammonia vapour and ammonia derivatives (K Filter). Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (vapor or mist). Equipment should conform to NIOSH.

## Environmental exposure controls

Use product only in closed system. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	ammonia-like
<b>Odour threshold</b>	1,2 ppm***
<b>pH</b>	13,1 (50 g/l in water @ 25 °C (77 °F)) DIN 19268
<b>Melting point/range</b>	< -130 °F (< -90 °C) (Pour point)
<b>Method</b>	DIN ISO 3016

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<b>Boiling point/range</b>	89,6 °F (32 °C) @ 1 atm (101,3 kPa)				
<b>Method</b>	OECD 103				
<b>Flash point</b>	<= -13 °F (<= -25 °C)				
<b>Method</b>	closed cup, ISO 2719				
<b>Evaporation rate</b>	No data available				
<b>Flammability (solid, gas)</b>	Does not apply, the substance is a liquid				
<b>Lower explosion limit</b>	2 Vol %				
<b>Upper explosion limit</b>	11,5 Vol %				
<b>Vapour pressure</b>					
Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
631	63,1	0,623	20	68	DIN EN 13016-2***
770	77,3	0,763	25	77	DIN EN 13016-2***
<b>Vapour density</b>	2,04 (Air = 1) @ 20 °C (68 °F)				
<b>Relative density</b>					
Values	@ °C	@ °F	Method		
0,6871	20	68	DIN 51757		
<b>Solubility</b>	miscible, in water, OECD 105***				
<b>log Pow</b>	-0,5 @ 25 °C (77 °F) OECD 117***				
<b>Autoignition temperature</b>	671 °F (355 °C) @ 1016 hPa***				
<b>Method</b>	DIN 51794				
<b>Decomposition temperature</b>	No data available				
<b>Viscosity</b>	0,47 mm <sup>2</sup> /s @ 68 °F (20 °C)				
<b>Method</b>	OECD 114, kinematic				

## 9.2. Other information

<b>Molecular weight</b>	59,11
<b>Molecular formula</b>	C <sub>3</sub> H <sub>9</sub> N
<b>log Koc</b>	1,2-2,1 OECD 106 read across***
<b>Dissociation constant</b>	pKa 10,8 @ 23,5 °C (74,3 °F), OECD 112***
<b>Oxidizing properties</b>	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties
<b>Refractive Index</b>	1,373 @ 68 °F (20 °C)
<b>Explosive properties</b>	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties
<b>Surface tension</b>	68,5 mN/m (1 g/l @ 20°C (68°F)), OECD 115

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

### 10.2. Chemical stability

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Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

## 10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

## 10.5. Incompatible materials

acids, strong oxidizing agents, halogenated hydrocarbon, acid anhydrides, acid chlorides.

## 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed. If heated to thermal decomposition the following decomposition products may occur depending on the conditions. carbon monoxide (CO). nitrogen oxides (NOx). cyanides. nitric acid. nitriles.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Likely routes of exposure** Ingestion, Inhalation, Eye contact, Skin contact

#### Isopropylamine, CAS: 75-31-0

##### **Main symptoms**

shortness of breath, convulsions, cough, hypertensive effect, narcosis, unconsciousness, discomfort, nausea.

##### **Target Organ Systemic Toxicant - Single exposure**

STOT SE

respiratory system

The available data lead to the classification given in section 2

##### **Target Organ Systemic Toxicant - Repeated exposure**

Based on available data, the classification criteria are not met for:

STOT RE

<b>Acute toxicity</b>				
<b>Isopropylamine (75-31-0)</b>				
Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	< 173 mg/kg	rat, male	OECD 425
Dermal	LD50	> 400 mg/kg	rat, male/female	OECD 402
Inhalative	LC50	8,7 mg/l (4h)	rat, male/female	OECD 403

#### Isopropylamine, CAS: 75-31-0

##### **Assessment**

The available data lead to the classification given in section 2

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<b>Irritation and corrosion</b>				
<b>Isopropylamine (75-31-0)</b>				
Target Organ Effects	Species	Result	Method	
Skin	rabbit	corrosive	OECD 404	3 min
Eyes	rabbit	corrosive	OECD 405	24h***
Respiratory tract***	mouse***	RD50: 157 ppm***	ASTM 981-84***	15 min***

## **Isopropylamine, CAS: 75-31-0**

### **Assessment**

The available data lead to the classification given in section 2\*\*\*

<b>Sensitization</b>				
<b>Isopropylamine (75-31-0)</b>				
Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig	not sensitizing	OECD 406	10 %, aqueous solution***

## **Isopropylamine, CAS: 75-31-0**

### **Assessment**

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

<b>Subacute, subchronic and prolonged toxicity</b>				
<b>Isopropylamine (75-31-0)</b>				
Type	Dose	Species	Method	
Subchronic toxicity	NOAEC: 500 mg/m <sup>3</sup> (90 d)	rat, male/female	OECD 413	Inhalation

## **Isopropylamine, CAS: 75-31-0**

### **Assessment**

Based on available data, the classification criteria are not met for:

STOT RE

<b>Carcinogenicity, Mutagenicity, Reproductive toxicity</b>					
<b>Isopropylamine (75-31-0)</b>					
Type	Dose	Species	Evaluation	Method	
Developmental Toxicity	NOAEC: 1000 mg/m <sup>3</sup>	rat		OECD 414	Teratogenicity Inhalation
Developmental Toxicity	NOAEC: 500 mg/m <sup>3</sup>	rat		OECD 414	Maternal toxicity Inhalation
Mutagenicity		mouse lymphoma cells	negative (with metabolic activation)	OECD 476 (Mammalian Gene Mutation)	In vitro study***
Mutagenicity		mouse lymphoma cells	negative (without metabolic activation)	OECD 476 (Mammalian Gene Mutation)	In vitro study***
Mutagenicity		Salmonella	negative (with	OECD 471	In vitro study***

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		typhimurium	metabolic activation)	(Ames)	
Mutagenicity		Salmonella typhimurium	negative (without metabolic activation)	OECD 471 (Ames)	In vitro study***
Mutagenicity		human lymphocytes	negative (with metabolic activation)	OECD 473 (Chromosomal Aberration)	In vitro study***
Mutagenicity		human lymphocytes	negative (without metabolic activation)	OECD 473 (Chromosomal Aberration)	In vitro study***
Reproductive toxicity	NOAEC: 500 mg/m <sup>3</sup>	rat, parental		OECD 415	Inhalation
Reproductive toxicity	NOAEC: 500 mg/m <sup>3</sup>	rat, 1. Generation, male/female***		OECD 415	Inhalation

## **Isopropylamine, CAS: 75-31-0**

### **CMR Classification**

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

### **Evaluation**

In vitro tests did not show mutagenic effects  
Animal testing did not show any effects on fertility  
In the absence of specific alerts no cancer testing is required

## **Isopropylamine, CAS: 75-31-0**

### **Other adverse effects**

Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.

### **Note**

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

<b>Acute aquatic toxicity</b>			
<b>Isopropylamine (75-31-0)</b>			
Species	Exposure time	Dose	Method
Daphnia magna (Water flea)	48h	EC50: 47,4 mg/l	79/831/EEC.C2
Desmodesmus subspicatus	72h	EC50: 18,9 mg/l (Growth rate)	DIN 38412, part 9
Oncorhynchus mykiss (rainbow trout)	96h	LC50: 40 mg/l	OECD 203
Activated sludge (domestic)	30 min	EC50: >1000 mg/l (Growth inhibition)	OECD 209

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Long term toxicity				
Isopropylamine (75-31-0)				
Type	Species	Dose	Method	
Aquatic toxicity	Desmodesmus subspicatus	NOEC: 1,25 mg/l (3d) Growth inhibition	DIN 38412 / part 9	

## 12.2. Persistence and degradability

### Isopropylamine, CAS: 75-31-0

#### Biodegradation

70 - 80 % (28 d), activated sludge, aerobic, domestic, OECD 301 F.

Abiotic Degradation		
Isopropylamine (75-31-0)		
Type	Result	Method
Hydrolysis	not expected	
Photolysis	No data available	

## 12.3. Bioaccumulative potential

Isopropylamine (75-31-0)		
Type	Result	Method
log Pow	-0,5 @ 25 °C (77 °F)***	measured, OECD 117
BCF	not expected	

## 12.4. Mobility in soil

Isopropylamine (75-31-0)		
Type	Result	Method
Surface tension	68,5 mN/m (1 g/l @ 20°C (68°F))	OECD 115
Adsorption/Desorption***	Koc: 15-107***	OECD 106 read across***
Distribution to environmental compartments***	no data available***	

## 12.5. Results of PBT and vPvB assessment

### Isopropylamine, CAS: 75-31-0

#### PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

## 12.6. Other adverse effects

### Isopropylamine, CAS: 75-31-0

No data available

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Product Information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

#### Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

## SECTION 14: Transport information

### D.O.T. (49CFR)

14.1. UN number	UN 1221
14.2. UN proper shipping name	Isopropylamine
14.3. Transport hazard class(es)	3
Subsidiary Risk	8
14.4. Packing group	I
14.5. Environmental hazards	no
14.6. Special precautions for user	
Emergency Response Guide	132

### ICAO-TI / IATA-DGR

14.1. UN number	UN 1221
14.2. UN proper shipping name	Isopropylamine
14.3. Transport hazard class(es)	3
Subsidiary Risk	8
14.4. Packing group	I
14.5. Environmental hazards	no
14.6. Special precautions for user	no data available

### IMDG

14.1. UN number	UN 1221
14.2. UN proper shipping name	Isopropylamine

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<b>14.3. Transport hazard class(es)</b>	3
Subsidiary Risk	8
<b>14.4. Packing group</b>	1
<b>14.5. Environmental hazards</b>	no
<b>14.6. Special precautions for user</b>	
EmS	F-E, S-C
<b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
Product name	Isopropylamine
Ship type	2
Pollution category	Y

## SECTION 15: Regulatory information

### Federal and State Regulations

Components of the product are listed in the quoted regulations. For details please refer to the regulations directly. This list is not exhaustive, please check for other applicable regulations.

#### Federal Regulations

This product is listed on the TSCA inventory

#### Isopropylamine, CAS: 75-31-0

Clean Air Act Section 112(r)	
112(r) Threshold	10000 LBS
CERCLA Hazardous Substance	
CERCLA RQ	100 LBS

#### State Regulations

#### Isopropylamine, CAS: 75-31-0

CA Hazardous Substances (Director's) List  
IL Chemical Safety Act  
MA RTK List  
MN Hazardous Substances List  
NJ RTK List  
NY RTK List\*\*\*  
PA RTK List  
RI RTK List

#### International Inventories

#### Isopropylamine, CAS: 75-31-0

AICS (AU)  
DSL (CA)  
IECSC (CN)

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EC-No. 2008609 (EU)  
ENCS (2)-131 (JP)  
ISHL (2)-131 (JP)  
KECI KE-29257 (KR)  
INSQ (MX)  
PICCS (PH)  
TSCA (US)  
NZIoC (NZ)  
TCSI (TW)

## SECTION 16: Other information

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### Hazard Rating Systems

#### **NFPA (National Fire Protection Association)**

Health Hazard	3
Fire Hazard	4
Reactivity	0

#### **HMIS (Hazardous Material Information System)**

Health Hazard	3
Flammability	4
Physical Hazard	0

### **Training advice**

For effective first-aid, special training / education is needed.

### **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

### **Further information for the safety data sheet**

Changes against the previous version are marked by \*\*\*. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage ([www.chemicals.oq.com](http://www.chemicals.oq.com)).

The use of a comma in section 3 and section 7 to 12 is the same as a period.

### **Disclaimer**

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**End of Safety Data Sheet**