

# SAFETY DATA SHEET

Creation Date 11-Nov-2010

Revision Date 25-Apr-2019

Revision Number 5

1. Identification

## Product Name Isopropylamine

Cat No. :

# AC148920000; AC148920010; AC148920025; AC148920100; AC148920250

CAS-No Synonyms 75-31-0 2-Aminopropane

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

#### <u>Company</u>

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## Classification

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

Flammable liquids	Category 1
Corrosive to metals	Category 1
Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/Irritation	Category 1 A
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

#### Label Elements

Signal Word Danger

#### Hazard Statements

Extremely flammable liquid and vapor May be corrosive to metals Causes severe skin burns and eye damage May cause respiratory irritation Toxic if swallowed, in contact with skin or if inhaled



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Keep only in original container Keep cool Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction Spills Absorb spillage to prevent material damage Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant polypropylene container with a resistant inliner Store in a dry place Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Isopropylamine	75-31-0	>95	
	4. First-aid measures	5	
General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.		
Inhalation	Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required. If not breathing, give artificial respiration.		
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.		
Most important symptoms and effects	vomiting: Product is a corrosive material. I contraindicated. Possible perforation of sto Ingestion causes severe swelling, severe c perforation	neadache, dizziness, tiredness, nausea and	
Notes to Physician	Treat symptomatically		

## 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	-37 °C / -34.6 °F
Method -	No information available
Autoignition Temperature	400 °C / 752 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	10.4% 2.0% t No information available No information available

## Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Extremely flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

## Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Ammonia. nitriles. Thermal decomposition can lead to release of irritating gases and vapors.

## **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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 4	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	personnel to safe areas. Ke sources of ignition. Take pr		
Methods for Containment and C Up	Clean Keep in suitable, closed co		with inert absorbent material.
	7. Handling a	and storage	
Handling	Do not get in eyes, on skin, If swallowed then seek imm surfaces and sources of igr only non-sparking tools. To	or on clothing. Do not breath nediate medical assistance. K nition. Use spark-proof tools a avoid ignition of vapors by st	otective equipment/face protection e mist/vapors/spray. Do not ingest eep away from open flames, hot nd explosion-proof equipment. Use atic electricity discharge, all metal onary measures against static
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#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from heat, sparks and flame. Do not store in metal containers.

## 8. Exposure controls / personal protection

## Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Isopropylamine	TWA: 5 ppm STEL: 10 ppm	(Vacated) TWA: 5 ppm (Vacated) TWA: 12 mg/m <sup>3</sup> (Vacated) STEL: 10 ppm (Vacated) STEL: 24 mg/m <sup>3</sup> TWA: 5 ppm TWA: 12 mg/m <sup>3</sup>	IDLH: 750 ppm	TWA: 5 ppm TWA: 12 mg/m³ STEL: 10 ppm

#### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective EquipmentEye/face ProtectionTight sealing safety goggles. Face protection shield.Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.Respiratory ProtectionFollow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

9. Physica	al and chemical properties		
Physical State	Liquid		
Appearance	Colorless		
Odor	Ammonia-like		
Odor Threshold	No information available		
рН	14 70% aq.sol		
Melting Point/Range	-101 °C / -149.8 °F		
Boiling Point/Range	33 - 34 °C / 91.4 - 93.2 °F		
Flash Point	-37 °C / -34.6 °F		
Evaporation Rate	No information available		
Flammability (solid,gas)	Not applicable		
Flammability or explosive limits			
Upper	10.4%		
Lower	2.0%		
Vapor Pressure	478 mmHg @ 20 °C		
Vapor Density	2.03 (Air = 1.0)		
Specific Gravity	0.690		
Solubility	miscible		
Partition coefficient; n-octanol/water	ctanol/water No data available		
Autoignition Temperature			
Decomposition Temperature	No information available		
Viscosity	0.3 mPa.s at 20 °C		
Molecular Formula	C3 H9 N		
Molecular Weight	59.11		
10. S	itability and reactivity		

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Acids, Strong oxidizing agents, Metals, copper, Aluminium, Lead, Acid anhydrides, Acid chlorides
Hazardous Decomposition Product	<b>s</b> Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Ammonia, nitriles, Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

## Acute Toxicity

#### Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropylamine	122 mg/kg (Rat)	>400 mg/kg ( Rabbit )	8.7 mg/L/4h ( Rat)
	170 mg/kg ( Rat )		- · · /
Toxicologically Synergistic	No information available		
Products			
<b>Delaved and immediate effects</b>	as well as chronic effects from	n short and long-term exposure	9

Irritation		Causes burns by all exposure routes				
Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcino			as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Isopropylamine	75-31-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effect	ts	No information ava	ilable.			
Developmental Effe	cts	No information ava	ilable.			
Teratogenicity		No information available.				
STOT - single expos STOT - repeated ex		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	hptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizzin tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lava emesis is contraindicated. Possible perforation of stomach or esophagus should b investigated: Ingestion causes severe swelling, severe damage to the delicate tissu danger of perforation			astric lavage or should be		
Endocrine Disrupto	r Information	No information available				
Other Adverse Effects		The toxicological properties have not been fully investigated.				

Revision Date 25-Apr-2019

12. Ecological information

## Ecotoxicity

Isopropylamine

Contains a substance which is:. The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropylamine	EC50: = 62.5 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: = 1.2 mg/L, 96h (Desmodesmus subspicatus) EC50: = 4.13 mg/L, 72h (Desmodesmus subspicatus)	LC50: = 310 mg/L, 96h (Pimephales promelas)	EC50 = 99 mg/L 17 h	EC50: = 20.8 mg/L, 48h (Daphnia magna)

Persistence and Degradability Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** 

No information available.

## Mobility

Will likely be mobile in the environment due to its volatility.

Isopropylamine	0.26

## 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN1221
Proper Shipping Name	ISOPROPYLAMINE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	
TDG	
UN-No	UN1221
Proper Shipping Name	ISOPROPYLAMINE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	
IATA	
UN-No	UN1221
Proper Shipping Name	ISOPROPYLAMINE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	
IMDG/IMO	
UN-No	UN1221
Proper Shipping Name	ISOPROPYLAMINE
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	
	15. Regulatory information

## United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Isopropylamine	75-31-0	Х	ACTIVE	-

#### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

## International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Isopropylamine	75-31-0	Х	-	200-860-9	Х	Х	Х	Х	KE-29257

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

**OSHA** - Occupational Safety and Health Administration

oompo	nent	Specifically Re	egulated Chemicals	Highly Hazardous Chemicals			
Isopropyla			- TQ: 5000 lb				
ERCLA	Not app	licable					
alifornia Proposition 65	This pro	duct does not contai	in any Proposition 65 cł	nemicals.			
.S. State Right-to-Know egulations	,						
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island		
Isopropylamine	Х	Х	X	-	Х		
OT Severe Marine Polluta .S. Department of Home ecurity	eland This pro		lowing DHS chemicals: Threshold Quantities,		ed amount		
Component			DHS Chemical Facility Anti-Terrorism Standard				
ls	sopropylamine		Release STQs - 10000lb				
ther International Regu	lations						
Mexico - Grade Severe risk		risk, Grade 4					

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	11-Nov-2010 25-Apr-2019 25-Apr-2019 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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 SDS**