SAFETY DATA SHEET

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

1.1 Product identifier
Product name: Eastman(TM) Isopropyl Acetate

Product No.: EAN 900279. 00614-00, P0061400, P0061401, P0061402, P0061403, P0061404, P0061405, P006140H, P006140Q, P00614TK, P00614NB, E0061401, P0061406, P0061407, P0061408

Additional identification

Chemical name:	isopropyl acetate
CAS-No.:	108-21-4

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Solvent
Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet
Manufacturer / Supplier

Eastman Chemical Company
200 South Wilcox Drive
Kingsport, TN 37660-5280 US
+14232292000

Visit our website at www.EASTMAN.com or email emnmsds@eastman.com

1.4 Emergency telephone number:

For emergency health, safety, and environmental information, call 1-423-229-4511 or 1-423-229-2000.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300 or call 423-229-2000.

SECTION 2: Hazards identification

WARNING!
FLAMMABLE LIQUID AND VAPOR
HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION OF THE EYES OR RESPIRATORY TRACT
PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DRYING, CRACKING, OR IRRITATION

SECTION 3: Composition/information on ingredients

3.1 / 3.2 Substances / Mixtures

General information:

Chemical name	Concentration	Additional identification	Notes
isopropyl acetate	100%	CAS-No.: 108-21-4 EC No.: 203-561-1 INDEX No.: 607-024-00-6	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# This substance has workplace exposure limit(s).
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Skin contact: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: Narcotic effect.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards: USE WATER WITH CAUTION. Material will float and may ignite on surface of water.

5.1 Extinguishing media

Suitable extinguishing media: Water spray. Dry chemical. Carbon Dioxide. Alcohol foam.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture: Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.

5.3 Advice for firefighters

Special Fire Fighting Procedures: Fight fire from a protected location. Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Wear appropriate personal protective equipment.

6.2 Environmental precautions: Not regarded as dangerous for the environment.

6.3 Methods and material for containment and cleaning up: Eliminate sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large Spillages: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Avoid breathing high vapor concentrations. Avoid contact with eyes and prolonged or repeated contact with skin. Use only with adequate ventilation. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed and in a well-ventilated place.

7.3 Specific end use(s): Solvent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If exposure limits have not been established, maintain airborne levels to an acceptable level.

Chemical name	Type	Exposure Limit values	Source
isopropyl acetate	TWA	100 ppm	US. ACGIH Threshold Limit Values (01 2010)
	STEL	200 ppm	US. ACGIH Threshold Limit Values (01 2010)
	PEL	250 ppm 950 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

8.2 Exposure controls

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.

Individual protection measures, such as personal protective equipment

General information:	Eye bath. Washing facilities.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection:	It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, chemical-resistant gloves should be worn. Contact health and safety professional or manufacturer for specific information.
Other:	No data available.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures:	Observe good industrial hygiene practices.
Environmental Controls:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical State:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Sweet, Fruity
Odor Threshold:	2.7 ppm
pH:	No data available.
	No data available.
Boiling Point:	85 °C
Flash Point:	2 °C (Tag closed cup)
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.

Flammability Limit - Upper (%)–:	40 %(V)
Flammability Limit - Lower (%)–:	1.76 %(V)
Vapor pressure:	63.2 hPa (20 °C)
Vapor density (air=1):	3.5
Specific Gravity:	0.872 (20 °C)
Solubility(ies)	
Solubility in Water:	Moderate
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	479 °C
Decomposition Temperature:	88 °C (DTA) (highest temperature tested; no exotherm observed)
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	None known.
10.2 Chemical stability:	Stable
10.3 Possibility of hazardous reactions:	None known.
10.4 Conditions to avoid:	None at ambient temperatures.
10.5 Incompatible materials:	Strong oxidizing agents.
10.6 Hazardous decomposition products:	Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	May cause drowsiness or dizziness.
Ingestion:	None known.
Skin contact:	Repeated exposure may cause skin dryness or cracking.
Eye contact:	Causes eye irritation.

11.1 Information on toxicological effects

Acute Toxicity

Oral

Product:	No data available.

Specified substance(s)
isopropyl acetate — Oral LD-50: (Rat): 6,750 mg/kg

Dermal
Product: No data available.

Specified substance(s)
isopropyl acetate — Dermal LD-50: (Rat): > 20 ml/kg

Inhalation
Product: No data available.

Specified substance(s)
isopropyl acetate — LC50 (Rat, 8 h): 50.6 mg/l

Repeated dose toxicity
Product: No data available.

Specified substance(s)
isopropyl acetate — NOAEL (Rat, Oral Study, 90 d): 900 mg/kg Read-across from a similar material

Skin corrosion/irritation:
Product: No data available.

Specified substance(s)
isopropyl acetate — (Guinea Pig, 4 h): slight

Serious eye damage/eye irritation:
Product: No data available.

Specified substance(s)
isopropyl acetate — (Rabbit): moderate

Respiratory or skin sensitization:
Product: No data available.

Specified substance(s)
isopropyl acetate — Skin Sensitization:, (Guinea Pig) - non-sensitizing

Germ cell mutagenicity

In vitro
Product: No data available.

Specified substance(s)
isopropyl acetate — No data available.

In vivo
Product: No data available.

Specified substance(s)
isopropyl acetate — No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)
isopropyl acetate No data available.

Reproductive toxicity
Product: No data available.

Specified substance(s)
isopropyl acetate No data available.

Specific target organ toxicity - single exposure
Product: No data available.

Specified substance(s)
isopropyl acetate No data available.

Specific target organ toxicity - repeated exposure
Product: No data available.

Specified substance(s)
isopropyl acetate No data available.

Aspiration hazard
Product: No data available.

Specified substance(s)
isopropyl acetate No data available.

Other adverse effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish
Product: No data available.

Specified substance(s)
isopropyl acetate LC-50 (golden orfe, 48 h): 265 - 360 mg/l

Aquatic invertebrates
Product: No data available.

Specified substance(s)
isopropyl acetate LC-50 (daphnid, 48 h): 1,260 mg/l
NOEC: (daphnid, 24 h): 4,150 mg/l

Chronic Toxicity

Fish
Product: No data available.

Specified substance(s)
isopropyl acetate No data available.

Aquatic invertebrates

Product:	No data available.
Specified substance(s)	
isopropyl acetate	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Specified substance(s)	
isopropyl acetate	ErC50 (Alga, 96 h): 370 mg/l Read-across from a similar material

12.2 Persistence and degradability

Biodegradation

Product:	No data available.
Specified substance(s)	
isopropyl acetate	76 % (20 d, Ready Biodegradability: Closed Bottle Test) Readily biodegradable

Biological Oxygen Demand:

Product	No data available.
Specified substance(s)	
isopropyl acetate	No data available.

Chemical Oxygen Demand:

Product	No data available.
Specified substance(s)	
isopropyl acetate	No data available.

BOD/COD ratio

Product	No data available.
Specified substance(s)	
isopropyl acetate	No data available.

12.3 Bioaccumulative potential

Product:	No data available.
Specified substance(s)	
isopropyl acetate	No data available.

12.4 Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

isopropyl acetate	No data available.

12.5 Results of PBT and vPvB assessment: No data available.

isopropyl acetate	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal Methods: Dispose of waste and residues in accordance with local authority requirements. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

SECTION 14: Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT

Possible Shipping Description(s):

UN 1220 Isopropyl acetate 3 II

IMDG - International Maritime Dangerous Goods Code

Possible Shipping Description(s):

UN 1220 ISOPROPYL ACETATE 3 II

IATA

Possible Shipping Description(s):

UN 1220 Isopropyl acetate 3 II

SECTION 15: Regulatory information

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

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS (Canada) Status: controlled
WHMIS (Canada) Hazard Classification: B/2

SARA 311-312 Hazard Classification(s):
fire hazard

US EPCRA (SARA Title III) Section 313 - Toxic Chemical List
NONE

OSHA: hazardous

TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL or otherwise complies with CEPA new substance notification requirements.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): All components of this product are listed in the Handbook or have been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): All components of this product are listed on the Korean inventory or otherwise comply with the Korean Toxic Substances Control Act.

SECTION 16: Other information

HMIS® Hazard Ratings: Health - 1, Flammability - 3, Chemical Reactivity - 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Revision Information:	Not relevant.
Key literature references and sources for data:	No data available.
Training information:	No data available.
Issue Date:	10/04/2011
SDS No:	
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.