Polarchem

SAFETY DATA SHEET

Revision Date: 1/1/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	ISOAMYL ACETATE
Product Number	IM540
Identified Uses	Laboratory

Company
Polarchem
13210 Harbor Blvd. #353
Garden Grove, CA 92843

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Emergency Overview

OSHA Hazards
Flammable liquid, Target Organ Effect, Irritant

Target Organs
Central nervous system

GHS Classification
Flammable liquids (Category 3), H226
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

Pictogram: 

Signal word Warning

Hazard statement(s)	
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 P361 P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P370 P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 P233	Store in a well-ventilated place. Keep container tightly closed.
P403 P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification	
Health hazard	2
Flammability	3
Physical hazards	1

NFPA Rating	
Health hazard	2
Fire	3
Reactivity Hazard	0

Potential Health Effects	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

3. Composition/information on ingredients

SYNONYM	Isopentyl acetate Acetic acid 3-methylbutyl ester Isoamyl acetate
Formula	C7H14O2
Molecular Weight	130.18 g/mol

CAS-No	EC-No	Index-No.	Concentration
123-92-2	204-662-3	607-130-00-2	

4. First-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult aphysician.

5. Fire-fighting measures

Conditions of flammability
Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away fromheat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Further information
Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove allsources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosiveconcentrations. Vapours can accumulate in low areas.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environmentmust be avoided.

Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place incontainer for disposal according to local regulations (see section 13).

7. Handling and storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealedand kept upright to prevent leakage.

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8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purposecombination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If therespirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and componentstested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touchingglove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use inaccordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriategovernment standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must beselected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end ofworkday.

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9. Physical and chemical properties

Appearance

Form	LIQUID
Colour	COLORLESS TO PALE YELLOW

Safety data

pH	no data available
Melting point (°C)	-78
Boiling point (°C)	142
Flash point (°F) Closed cup	97
Ignition temperature	355 °C (671 °F)
Autoignitiontemperature	360 °C (680 °F)
Lower explosion limit	1 %(V)
Upper explosion limit	7.5 %(V)

Vapour pressure (mm Hg @20 °C)	4.0
Density @25 °C	0.870
Water solubility	SLIGHT
Partition coefficient: n-octanol/water	log Pow: 2.25
Solubility in other solvents	Alcohol -Completely miscible Ether -Completely miscible
Relative vapourdensity	4.0
Odor	FRUIT-LIKE
Odour Threshold	no data available
Evaporation rate	no data available

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10. Stability and reactivity

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Vapours may form explosive mixture with air.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

Oxidizing agents, Strong acids and strong bases, Reducing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

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11. Toxicological information

Acute toxicity

Oral LD50

LD50 Oral - rabbit - 7,422 mg/kg

Inhalation LC50

no data available

Dermal LD50

LD50 Dermal - rabbit - > 5,000 mg/kg

Other information on acute toxicity

no data available

Skin corrosion/irritation
Skin - rabbit - Mild skin irritation

Serious eye damage/eye irritation
Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization
Guinea pig - Does not cause skin sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro - Ames test - S. typhimurium - negative

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable. possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

Teratogenicity
no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
inhalation (vapour) - May cause respiratory irritation. - Mucous membranes

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure
Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., sore throat, Abdominal pain, Nausea, Vomiting,Dizziness, Drowsiness, Cough, chest pain, Difficulty in breathing

Synergistic effects
no data available

Additional Information
RTECS: NS9800000

12. Ecological information

Toxicity

Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - 36 - 131 mg/l - 48 h
	LC100 - Leuciscus idus (Golden orfe) - 148 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 42 mg/l - 48 h
Toxicity to algae	EC50 - Algae - 450 mg/l - 72 h

Persistence and degradability

Biodegradability	Result: - Readily biodegradable.

Bioaccumulative potential
No bioaccumulation is to be expected (log Pow <= 4).

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

no data available

13. Disposal considerations

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this materialis highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensedprofessional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. Transport information

DOT (US)

UN number: 1104 Class: 3 Packing group: III
Proper shipping name: AMYL ACETATES

IMDG

UN number: 1104 Class: 3 Packing group: III EMS-No: F-E, S-D
Proper shipping name: AMYL ACETATES

IATA

UN number: 1104 Class: 3 Packing group: III
Proper shipping name: AMYL ACETATES

15. Regulatory information

OSHA Hazards
Flammable liquid, Target Organ Effect, Irritant

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold(De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Isoamyl acetate	123-92-2	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Isoamyl acetate	123-92-2	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Isoamyl acetate	123-92-2	1993-04-24

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Categories

Safety Data Sheet prepared by: Penta

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Penta's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

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