1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ISOAMYL ACETATE
Product Number: IM540

Identified Uses: Laboratory

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

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.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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 a physician.

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### 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 from heat/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.

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### 6. Accidental release measures

**Personal precautions**
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. 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 environment must 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 in container for disposal according to local regulations (see section 13).

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### 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 resealed and kept upright to prevent leakage.

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-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested 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 touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance 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 appropriate government 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 be selected 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 of workday.

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)
Autoignition temperature 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 vapour density 4.0  
Odor FRUIT-LIKE  
Odour Threshold no data available  
Evaporation rate no data available

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

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 material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional 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
Isoamyl acetate        CAS-No.        Revision Date
123-92-2               1993-04-24

Pennsylvania Right To Know Components
Isoamyl acetate        CAS-No.        Revision Date
123-92-2               1993-04-24

New Jersey Right To Know Components
Isoamyl acetate        CAS-No.        Revision Date
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 product's 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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