

Isopropyl Acetate

Version 1.1 Revision Date: 04/12/2017

Date of last issue: -
Date of first issue: 09/06/2016**SECTION 1. IDENTIFICATION**

Product name : Isopropyl Acetate

Manufacturer or supplier's details

Company name of supplier : Alliance Chemical

Address : 204 South Edmond Street
Taylor, Texas, 76574

Telephone : (512) 365-6838

Emergency telephone : CHEMTEL: +1-800-255-3924

Recommended use of the chemical and restrictions on use

Recommended use : Solvent

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 2

Eye irritation : Category 2B

Specific target organ
systemic toxicity - single
exposure : Category 3 (Central nervous system)**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.
H320 Causes eye irritation.
H336 May cause drowsiness or dizziness.Precautionary Statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.

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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/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
isopropyl acetate	108-21-4	100

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
 Treat symptomatically.
 If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.
 If symptoms persist, call a physician.

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In case of eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.
If swallowed	: Seek medical advice.
Most important symptoms and effects, both acute and delayed	: Causes eye irritation. May cause drowsiness or dizziness.
Notes to physician	: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Carbon dioxide (CO2) Dry chemical Water spray Alcohol-resistant foam
Unsuitable extinguishing media	: None known.
Specific hazards during fire fighting	: Water may be ineffective. The product will float on water and can be reignited on surface water.
Hazardous combustion products	: No hazardous combustion products are known
Further information	: Highly flammable liquid and vapor. Use water spray to cool unopened containers.
Special protective equipment for fire-fighters	: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Wear appropriate personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions	: Avoid release to the environment.
Methods and materials for containment and cleaning up	: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). After cleaning, flush away traces with water. Eliminate all ignition sources if safe to do so.

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Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Advice on safe handling : Do not get in eyes.
Wash thoroughly after handling.
Keep away from fire (No Smoking).
Keep away from fire, sparks and heated surfaces.
Do not use sparking tools.Conditions for safe storage : Keep container closed when not in use.
Store locked up.**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
isopropyl acetate	108-21-4	TWA	100 ppm	ACGIH
		STEL	200 ppm	ACGIH
		TWA	250 ppm 950 mg/m ³	OSHA Z-1
		TWA	250 ppm 950 mg/m ³	OSHA P0
		STEL	310 ppm 1,185 mg/m ³	OSHA P0

Engineering measures : Ensure adequate ventilation.**Personal protective equipment**

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Wear safety glasses with side shields (or goggles).
Face-shield
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area.
Ensure that eye flushing systems and safety showers are located close to the working place.
Use personal protective equipment as required.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : sweet, fruity

Odor Threshold : not determined

Boiling point/boiling range : 85 °C

Flash point : 2 °C
Method: Tag closed cup

Evaporation rate : not determined

Upper explosion limit : 40 %(V)

Lower explosion limit : 1.76 %(V)

Vapor pressure : not determined

Relative vapor density : 3.5

Relative density : 0.872 (20 °C)

Solubility(ies)
Water solubility : Moderate

Autoignition temperature : 479 °C

Decomposition temperature : Thermal stability not tested. Low stability hazard expected at normal operating temperatures.

Viscosity
Viscosity, dynamic : 0.60 mPa.s (20 °C)

Viscosity, kinematic : not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : None known.

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tions

Conditions to avoid : Incompatible materials

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Carbon dioxide (CO₂)
Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

Acute oral toxicity : LD50 Oral (Rat): 6,750 mg/kg

Acute inhalation toxicity : LC50 (Rat): 50.6 mg/l
Exposure time: 8 h

Ingredients:**isopropyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 6,750 mg/kg

Acute inhalation toxicity : LC50 (Rat): 50.6 mg/l
Exposure time: 8 h

Acute dermal toxicity : LD50 Dermal (Rat): > 20 ml/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species: Guinea pig
Exposure time: 4 h
Result: slight
Remarks: Read-across from a similar material

Ingredients:**isopropyl acetate:**

Species: Guinea pig
Exposure time: 4 h
Result: slight
Remarks: Read-across from a similar material

Serious eye damage/eye irritation

Causes eye irritation.

Product:

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Date of last issue: -
Date of first issue: 09/06/2016Species: Rabbit
Result: slight to moderate**Ingredients:****isopropyl acetate:**Species: Rabbit
Result: slight to moderate**Respiratory or skin sensitization**

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product:

Test Type: Skin Sensitization

Species: Guinea pig

Result: non-sensitizing

Remarks: Read-across from a similar material

Ingredients:**isopropyl acetate:**

Test Type: Skin Sensitization

Species: Guinea pig

Result: non-sensitizing

Remarks: Read-across from a similar material

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**OSHA** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**Reproductive toxicity**

Not classified based on available information.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

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Species: Rat
NOAEL: 900 mg/kg
Application Route: Oral Study
Exposure time: 90 d
Remarks: Read-across from a similar material

Ingredients:**isopropyl acetate:**

Species: Rat
NOAEL: 900 mg/kg
Application Route: Oral Study
Exposure time: 90 d
Remarks: Read-across from a similar material

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Information on likely routes of exposure**Product:**

Inhalation : Remarks: May cause drowsiness or dizziness.
Skin contact : Remarks: None known.
Eye contact : Remarks: Causes eye irritation.
Ingestion : Remarks: None known.

Further information**Product:**

Remarks: None known.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : LC50 (golden orfe): 265 - 360 mg/l
Exposure time: 48 h
Toxicity to daphnia and other : LC50 (daphnid): 1,260 mg/l
aquatic invertebrates : Exposure time: 48 h

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Exposure time: 24 hToxicity to algae : ErC50 (Chlorella pyrenoidosa): 370 mg/l
Exposure time: 96 h
Remarks: Read-across from a similar material**Ingredients:****isopropyl acetate:**Toxicity to fish : LC50 (Fish): 265 - 360 mg/l
Exposure time: 48 hToxicity to daphnia and other aquatic invertebrates : LC50 (daphnid): 1,260 mg/l
Exposure time: 48 hNOEC: (daphnid): 4,150 mg/l
Exposure time: 24 hToxicity to algae : ErC50 (Chlorella pyrenoidosa): 370 mg/l
Exposure time: 96 h
Remarks: Read-across from a similar material**Persistence and degradability****Product:**Biodegradability : Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 20 d
Method: Ready Biodegradability: Closed Bottle Test**Ingredients:****isopropyl acetate:**Biodegradability : Result: Readily biodegradable.
Biodegradation: 76 %
Exposure time: 20 d
Method: Ready Biodegradability: Closed Bottle Test**Bioaccumulative potential**

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

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SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 1220
Proper shipping name : Isopropyl acetate
Class : 3
Packing group : II
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353

IMDG-Code

UN number : UN 1220
Proper shipping name : ISOPROPYL ACETATE

Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name : SOPROPYL ACETATE
Pollution category : Z
Ship type : 3

Domestic regulation**49 CFR**

UN/ID/NA number : UN 1220
Proper shipping name : ISOPROPYL ACETATE

Class : 3
Packing group : II
Labels : Class 3 - Flammable Liquid
ERG Code : 129
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know**

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

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

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.

The ingredients of this product are reported in the following inventories:

CH INV : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

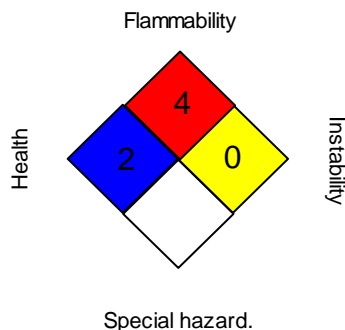
AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals

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in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information**NFPA:****HMIS® IV:**

HEALTH	1	2
FLAMMABILITY	3	
PHYSICAL HAZARD	0	

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks.

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The information provided in this Material 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.

US / Z8