

Material safety Data sheet

Isopropyl Alcohol

Edition: 29 December 2010 / Version 1.0
Product name: Isopropyl Alcohol

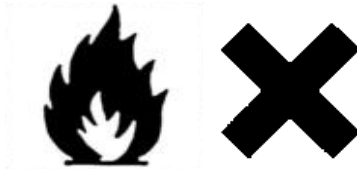
1. Chemical Product and Company Identification

Product name : Isopropyl Alcohol
Product code : P50055

2. Hazards Identification

Format in accordance with guideline 67/548/EEG or guideline 1999/45/EG

Hazard Pictogram:



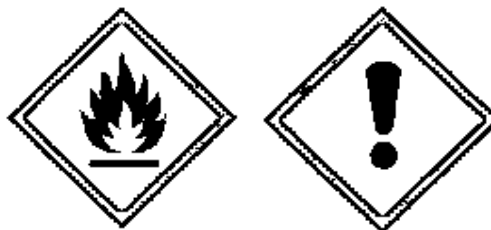
Signal words: Highly Flammable - Irritating

Hazard statement(s): R11 Highly flammable
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

Precautionary statement(s): S2 Keep out of reach of children
S7 Keep container tightly closed.
S16 Keep away from sources of ignition - No smoking
S24/25 Avoid contact with eyes and skin.
S26 In case of contact with eyes, rinse immediately with plenty water and seek medical advice.

Composition of substance:
(EC) No 1272/2008):

Hazard pictograms:



Signal word: Danger

Hazard statement(s): H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s):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.
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.
305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presents and easy to do. Continue rinsing.

Other hazards

No data available.

3. Composition and Information on Ingredients

Chemical name: Isopropyl Alcohol, Isopropanol, propaan-20ol

Impurities / additives that can cause danger: none

Isopropyl Alcohol

Synonyms	: Isopropyl alcohol
CAS No.	: 67-63-0
REACH registration	: N.A.
EINECS no.	: 200-661-7

4. First Aid Measures

<u>General information</u>	: Remove contaminated clothing immediately.
<u>After inhalation</u>	: Move to fresh air.
<u>After swallowing</u>	: Give large quantities of water to drink. Do NOT induce vomiting; instantly call for medical help.
<u>After skin contact</u>	: Wash off immediately with plenty of water.
<u>After eye contact</u>	: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

Most important acute and delayed symptoms and effects.

No data available

Indication of immediate medical attention and special treatment.

For specialist advice physicians should contact the poison control center.

5. Fire and Explosion Data

Extinguishing media.

Extinguish with: Alcohol-resistant foam, carbon dioxide (CO₂), dry powder or water fog.

Unsuitable extinguishing media.

Water with a full water jet.

Specific hazards during fire fighting.

No data available.

Protective equipment for fire fighters.

Protective clothing.

6. Accidental release measures

Personal precautions.

Ensure adequate. Keep away from ignition sources. Do not smoke. Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow to enter the ground/soil. Prevent material from reaching sewage system, holes and cellars. Do not allow to enter drainage system, surface or ground water.

Spill clean up methods

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Absorb with liquid-binding non combustible material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

7. Handling and storage

Precautions for safe handling

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about protection against explosions and fires

Fumes can combine with air to form an explosive mixture. Do not allow to enter drains (danger of explosion). Keep ignition sources away – Do not smoke. Protect against electrostatic charges. No fire, no smoking. Closed machinery, ventilation, explosion save electric machinery. Protect against electrostatic charges.

Requirements to be met by storerooms and containers

Suitable packing material: stainless steel. Do not store in direct sunshine. Store in cool location. Store away from oxidizing agents. Store container in fume cupboard. Storage temperature: 5 - 25°C. Store under dry conditions. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

Storage class

3

Specific end use(s)

No further relevant information available.

8. Exposure controls / Personal protection

Control parameters

The product does not contain any substances for which MAC-values are set.

DNEL

Propaan-2-ol;

Isopropylalcohol;isopropanol: Worker industry

Exposure route: Contact with skin

Potential health problems: Chronic effects

Exposure time: 1 day

Value: 888 mg/m³

Worker industry
Exposure route: Inhalation
Potential health problems: Chronic effects
Value 500 mg/m³

Consumer general
Exposure route: Contact with skin
Potential health problems: Chronic effects
Exposure time: 1 day
Value: 319 mg/m³

Consumer general
Exposure route: Inhalation
Potential health problems: Chronic effects
Value: 89 mg/m³

Consumer general
Exposure route: swallowing
Potential health problems: Chronic effects
Exposure time: 1 day
Value: 26 mg/kg

PNEC

Propaan-2-ol;

Isopropylalcohol; isopropanol: Fresh water
Waarde: 140,9 mg/l

Marine water
Waarde: 140,9 mg/l

Fresh water sediment
Waarde: 552 mg/kg

Marine water sediment
Waarde: 552 mg/kg

Soil
Waarde: 28 mg/kg

Personal protective equipment

Respiratory equipment

Not necessary if room is well-ventilated. Type A filter. Use breathing protection when aerosol or mist is formed. Filter type A2AX.

Eye protection

Tightly sealed safety glasses (EN 166)

General protective and hygienic measures

Instantly remove any soiled and impregnated garments. Avoid contact with the eyes and skin. Do not inhale vapours/ aerosols.

Other protection:

Provide ventilation and confine spill. Do not allow runoff to sewer.

9. Physical and chemical properties

Appearance at 20°C	: Clear liquid
Colour	: Colourless
Odour	: Characteristic
pH	: N.A.
Solubility	: Soluble in water
Boiling point °C	: 82 °C, 1.013hPa
Melting point/-traject	: ca. -89 °C
Flash point	: 12 °C
Flammability limit-lower (%)	: 2 % (V)
Flammability limit-upper (%)	: 12% (V)
Vapour pressure	: 42 hPa, 20 °C 60,2 hPa, 25 °C
Bulk density	: 0,7855 g/cm ³ , 20 °C
Segregation coefficient n-octanol/water	: log Pow: -0,05, 25 °C
Ignition temperature	: > 399 °C
Thermal decomposition	: No decomposition if used according to specifications
Viscosity, dynamic	: 2,5 mPa.s, 20 °C 2,1 mPa.s, 25 °C
Danger of explosion	: Product is not explosive.

Other information:

Refractive index : 1,376 – 1,378, 20 °C

10. Stability and reactivity

Reactivity

N.A.

Chemical stability

N.A.

Possibility of hazardous reactions

Together with air, vapours can form an explosive mixture. Reactions with oxidising agents.
Reactions with oxidising agents.

Conditions to avoid

Heat, sparks, open flames and other ignition sources.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Hazardous decomposition products

No dangerous decomposition products known.

11. Toxicological information

Acute oral toxicity

LD50:> 2.000 mg/kg, rat, GLP: no

Acute dermal toxicity

LD50: > 2.000 mg/kg, rabbit, GLP: no

Skin irritation

Rabbit, Result: not irritating, GLP: no

Eye irritation

Rabbit, Result: irritating, GLP: no

Sensitisation

Bühler-test, guinea pig, Result: not sensitizing, GLP: no

Mutagenicity in sex cells

Genotoxicity in vitro

Ames test, Salmonella typhimurium, with and without, Result: negative, GLP: no

12. Ecological information

Toxicity

Toxicity for fish

LC40: > 100 mg/l, 48h, Leuciscus idus melanotus, stationary, GLP: no

Toxicity for dafnia's and other aquatic invertebrates

EC50: > 100 mg/l, 48h, Daphnia Magna, static test, GLP: no

Toxicity for voor algae

EC50: > 100 mg/l, 72 h, Scenedesmus subspicatus, static test, GLP: no

Persistence and degradability

Biological degradability

Aëroob, > 70%, Result: Easily biodegradable. Exposure time: 10 d, content 7 mg/l, GLP: no

Results of PBT- en zPzB- assessment

Rating:

This substance is not considered persistent, bioaccumulation, or toxic (PBT) and not very persistent or very bioaccumulating (zPzB).

Other adverse effects

No further relevant information available.

13. Disposal considerations

Waste treatment methods

Product

Disposal must be made according to official regulations.

Uncleaned packagings

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

14. Transport information

Road

UN no.	: 1219
ADR Class	: 3
Proper shipping name	: Isopropanol, 3, II, D/E
Packing gr.	: II
Tunnel restriction	: D/E
ADR label	:



Air

UN no. : 1219
Proper shipping name : Isopropanol, 3, II, D/E
Packing instruction (5 litre) : n.v.t.
Packing instruction (60 litre) : n.v.t.
Class : 3
ICAO/IATA label :



Sea

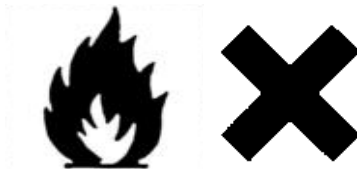
UN no. : 1219
Proper shipping name : Isopropanol, 3, II, D/E
Marine pollutant substance :
Class : 3
Maximum quantity :
EmS : F-E, S-D
Stowage and segregation :



15. Regulatory information

Format in accordance with guideline 67/548/EEG or guideline 1999/45/EG

Hazard Pictogram:



Signal words:

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16. Other information

This Material Safety Data Sheet has been made according to the demands of REACH (EG) 1272/2008.

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

Manufactured for Insight Cosmetics Group A/S