# **isradmk**

# **SAFETY DATA SHEET**

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

1.1. Product identifier

**IPA SOLVENT** Name of the substance

603-117-00-0 (Index number) Identification number

Registration number

**Synonyms** None.

BDS001946BU **Product code** Issue date 19-May-2021

Version number 01

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaners - Precision

None known Uses advised against

1.3. Details of the supplier of the safety data sheet Company name CRC Industries UK Ltd.

**Address** Wylds Road

> Castlefield Industrial Estate TA6 4DD Bridgwater Somerset

United Kingdom

Telephone +44 1278 727200 +44 1278 425644 Fax E-mail hse.uk@crcind.com Website www.crcind.com

1.4. Emergency telephone

Tel.:(+44)(0)1278 72 7200 (office hours)

number

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable liquids Category 2 H225 - Highly flammable liquid and

vapour.

**Health hazards** 

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

exposure

dizziness.

May be ignited by heat, sparks or flames. May cause drowsiness or dizziness. Causes serious eye irritation. Occupational exposure to the substance or mixture may cause adverse health

effects.

#### 2.2. Label elements

**Hazard summary** 

## Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Propan-2-ol; Isopropyl alcohol; Isopropanol

**Hazard pictograms** 



Signal word Danger

Material name: IPA SOLVENT - Ambersil - europe

**Hazard statements** 

Highly flammable liquid and vapour. H225 Causes serious eye irritation. H319 H336 May cause drowsiness or dizziness.

## **Precautionary statements**

Prevention

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P271 Use only outdoors or in a well-ventilated area.

Response

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.

**Storage** 

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### **General information**

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Propan-2-ol; Isopropyl alcohol; Isopropanol	100	67-63-0 200-661-7	01-2119457558-25	603-117-00-0	
Classification	n: Flam. Lig.	2;H225, Eye Irrit. 2;H	319, STOT SE 3;H336		

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

#### **SECTION 4: First aid measures**

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

before reuse.

4.1. Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

**Skin contact** Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and

delayed

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

## **SECTION 5: Firefighting measures**

General fire hazards Highly flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

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

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

so without risk

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid breathing mist/vapours. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist/vapours. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

Occupational exposure limits

**UK. EH40 Workplace Exposure Limits (WELs)** 

Components	Туре	Value	
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)	STEL	1250 mg/m3	
		500 ppm	
	TWA	999 mg/m3	
		400 ppm	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

Follow standard monitoring procedures.

procedures

Material name: IPA SOLVENT - Ambersil - europe BDS001946BU Version #: 01 Issue date: 19-May-2021

#### Derived no effect levels (DNELs)

## General Population

General Population			
Components	Value	Assessment factor	Notes
Propan-2-ol; Isopropyl alcohol;	Isopropanol (CAS 67-63-0)		
Long-term, Systemic, Derr	nal 319 mg/kg bw/day	2	Repeated dose toxicity
Long-term, Systemic, Inha	lation 89 mg/m3	2	Repeated dose toxicity
Long-term, Systemic, Oral	26 mg/kg bw/day	2	Repeated dose toxicity
<u>Workers</u>			
Components	Value	Assessment factor	Notes
Propan-2-ol; Isopropyl alcohol;	Isopropanol (CAS 67-63-0)		
Long-term, Systemic, Derr	nal 888 mg/kg bw/day	1	
Long-term, Systemic, Inha	lation 500 mg/m3	1	
redicted no effect concentration	s (PNECs)		
Components	Value	Assessment factor	Notes
Propan-2-ol; Isopropyl alcohol;	Isopropanol (CAS 67-63-0)		
Freshwater	140.9 mg/l	1	
Secondary poisoning	160 mg/kg	30	Oral
Sediment (freshwater)	552 mg/kg		
Soil	28 mg/kg		
2. Exposure controls			
ppropriate engineering ontrols	Explosion-proof general and local exhaust ventilation. Good general ventilation 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. Provide eyewash station and safety shower.		

#### Individual protection measures, such as personal protective equipment

General information Use	personal protective ed	quipment as required	ed. Personal protection ed	uipment should be chosen
-------------------------	------------------------	----------------------	----------------------------	--------------------------

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166. Eye/face protection

Skin protection

When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough - Hand protection

time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Suitable gloves can be

recommended by the glove supplier. Neoprene gloves are recommended.

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with

organic vapour cartridge and full facepiece. (Filter type A)

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

When using do not smoke. Always observe good personal hygiene measures, such as washing Hygiene measures

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to

acceptable levels.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state Liquid. Colour Colourless. Alcohol. Odour

Melting point/freezing point -88.5 °C (-127.3 °F)

Boiling point or initial boiling

82.3 °C (180.1 °F) 1013.1 hPa

point and boiling range

Not available.

Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

2.5 %

Flammability limit - upper

12 %

(%)

Flash point 12.0 °C (53.6 °F) Closed cup

Auto-ignition temperature > 425 °C (> 797 °F)

**Decomposition temperature** Not available. pH Not available.

Solubility(ies)

Solubility (water) Soluble in water

Vapour pressure 6.1 kPa Vapour density 2.1

Relative density 0.79 g/cm3
Relative density temperature 25 °C (77 °F)
Particle characteristics Not available.

9.2 Other safety characteristics

Chemical family Cleaner

**Dynamic viscosity** 2.1 mPa.s (25 °C (77 °F))

Explosive properties Not explosive.

Heat of combustion (NFPA 27.4 kJ/g

30B)

Molecular formulaC3-H8-OMolecular weight60.1 g/molOxidising propertiesNot oxidising.

Percent volatile 100 %

Surface tension 20.93 mN/m (25 °C (77 °F))

**VOC** 786 g/l

## **SECTION 10: Stability and reactivity**

**10.1. Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability** Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

**10.5. Incompatible materials** Acids. Strong oxidising agents. Chlorine. Isocyanates.

**10.6. Hazardous** Carbon oxides.

decomposition products

10.4. Conditions to avoid

## **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

**Inhalation** May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

**Skin contact** Based on available data, the classification criteria are not met.

**Eye contact** Causes serious eye irritation.

**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components Species Test Results

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Acute Dermal

LD50 Rabbit 12800 mg/kg

Material name: IPA SOLVENT - Ambersil - europe BDS001946BU Version #: 01 Issue date: 19-May-2021

Components **Species Test Results** Inhalation LC50 Rat > 25000 mg/m3, 6 h Oral LD50 Rat 4.7 g/kg Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye Causes serious eye irritation. irritation Based on available data, the classification criteria are not met.

Respiratory sensitisation Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Carcinogenicity Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

Based on available data, the classification criteria are not met.

repeated exposure

Based on available data, the classification criteria are not met.

Mixture versus substance

information

Not available

#### 11.2. Information on other hazards

**Endocrine disrupting** 

properties

**Aspiration hazard** 

The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher.

Other information Not available

## **SECTION 12: Ecological information**

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Test Results** 

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Aquatic

Acute

Crustacea LC50 Brine shrimp (Artemia salina) > 10000 mg/l, 24 hours Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

12.2. Persistence and

No data is available on the degradability of this substance.

degradability

#### 12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

> 0.05 IPA SOLVENT 0.05 Propan-2-ol; Isopropyl alcohol; Isopropanol

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

None known

12.7. Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation potential.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

SDS UK

**EU waste code**The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Special precautions**Dispose in accordance with all applicable regulations.

## **SECTION 14: Transport information**

#### **ADR**

**14.1. UN number** UN1219

14.2. UN proper shipping ISOPROPANOL

name

14.3. Transport hazard class(es)

Class 3 Subsidiary risk -

Hazard No. (ADR) Not available.

Tunnel restriction code (D/E) ADR/RID - Classification F1

code:

**14.4. Packing group** II **14.5. Environmental hazards** No

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

#### **IATA**

**14.1. UN number** UN1219

14.2. UN proper shipping ISOPROPANOL

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk 
14.4. Packing group ||

14.5. Environmental hazards No

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

#### **IMDG**

**14.1. UN number** UN1219

14.2. UN proper shipping ISOPROPANOL

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk 14.4. Packing group ||
14.5. Environmental hazards
Marine pollutant No
EmS F-E. S-D

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk Not established.

according to IMO instruments

ADR; IATA; IMDG



## **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

## Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

#### List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).

RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

VOC: Volatile organic compounds.

vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

References

Information on evaluation method leading to the classification of mixture

Full text of any H-statements not written out in full under

Sections 2 to 15

Not available. Not applicable.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Revision information** 

**Training information** 

Follow training instructions when handling this material.

Disclaimer

CRC Industries Europe UK Limited cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

Material name: IPA SOLVENT - Ambersil - europe BDS001946BU Version #: 01 Issue date: 19-May-2021