

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

1.1. Product identifier

Product name : Antistatic Cleaner
 Product code : ANTISTAT
 CAS Number : 67-63-0
 MFCD Number : MFCD00011674
 EINECS : N/A

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
 For professional use only
 Use of the substance/mixture : Cleaning acrylic and other plastics to protect against static

1.2.2. Uses advised against

Research and Development use

1.3. Details of the supplier of the safety data sheet

Signgeer Limited
 Valhalla Business Park, Dobles Lane,
 Holsworthy, Devon, EX22 6HN, UK
 T 0044 1409 259802
 hello@signgeer.com - www.signgeer.com

1.4. Emergency telephone number

Emergency number : 0044 1409259802

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids (Category 2)
 Eye irritation (Category 2)
 Specific target organ toxicity - single exposure (Category 3)

2.2. Label elements

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

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

Precautionary statements (CLP) :

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P260 - Do not breathe dust/fumes/gas/mist/vapours/spray.
 P261 - Avoid breathing vapours.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301 + P310 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.

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2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Propan-2-ol, Aqua, Anionic Surfactants

Assay: 97%

CAS number: 67-63-0

3.2. Mixture

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.
First-aid measures after inhalation	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention

4.2. Most important symptoms and effects, both acute and delayed

Central nervous system depression; prolonged or repeated exposure can cause: nausea; headache; vomiting; narcosis; drowsiness; overexposure may cause mild, reversible liver effects.

Kidney - Irregularities - Based on Human Evidence

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

No additional measures required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide, Dry chemical powder or foam, Sand.

Unsuitable extinguishing media : Water

5.2. Special hazards arising from the substance or mixture

In combustion emits carbon oxides. Combustible liquid.

5.3. Advice for firefighters

Protection during firefighting : Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not attempt to take action without suitable protective clothing – see section 8 of SDS. Evacuate the area immediately. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.1.2. For emergency responders

Protective equipment : Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Use water spray to cool unopened containers.

6.2. Environmental precautions

Do not discharge into drains or rivers. Contain spillage with bunds.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mix with sand or vermiculite.

Other information : Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure there is sufficient ventilation of the area.
- Protection against explosions and fires : Remove/take off immediately all contaminated clothing. Keep away from sources of ignition – no smoking. Take measures to prevent the build up of electrostatic charge. Wash all contaminated clothing before re-use.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Managing storage risks : Store in a cool, well ventilated area. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Storage controls : Do not store in conditions of high (or highly fluctuating) temperature.
- Managing integrity : Keep container tightly closed. Hygroscopic – store under a dry inert atmosphere.
- Other advice : Store in a well ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Propanol (67-63-0)		
UK EH40 WEL – Workplace Exposure Limits	STEL	500 ppm 1,250 mg/m ³
UK EH40 WEL – Workplace Exposure Limits	TWA	400 ppm 999 mg/m ³

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Gloves. Safety glasses. Protective clothing. Face protection.
- Hand protection : Protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry hands.
- Eye protection : Safety glasses with side shields
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : Do not breath dust/fumes/gas/vapours/spray. Use breathing protection with high concentration.



Environmental exposure controls : Avoid release to the environment.

Wash hands during breaks and at the end of handling the material. Immediately remove any contaminated clothing.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Molecular formula:	C3 H8 O
Molecular weight:	60.095
Information on basic physical and chemical properties	
Appearance:	Clear colourless liquid.
Odour:	Alcohol-like.
Odour threshold:	No data.
pH:	No data.
Melting point/freezing point:	-89,5 °C
Initial boiling point and boiling range:	81-83 °C
Flash point:	12°C
Evaporation rate:	3.0
Flammability (solid, gas):	No data.
Upper/lower flammability or explosive limits:	Upper explosion limit: 12.7 %(V) Lower explosion limit: 2.0 %(V)
Vapour pressure:	43.2 hPa @ 20 °C 58.7 hPa @ 25 °C
Vapour density:	No data.
Relative density:	0.785 g/cm ³ @ 25 °C
Water solubility:	Completely soluble.
Partition coefficient: n-octanol/ water:	log Pow: 0.05
Auto-ignition temperature:	425 °C
Decomposition temperature:	No data.
Viscosity:	No data.
Explosive properties:	No data.
Oxidizing properties:	No data.

9.2. Other information

Specific Gravity:	No data.
% Volatile:	No data.
Relative vapour density:	No data.
Surface tension:	20.8 mN/m at 25.0 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

No usual reactivity.

10.2. Chemical stability

Stable under normal conditions. Test for peroxide before distillation or evaporation. Test for peroxide formation or discard after 1 year.

10.3. Possibility of hazardous reactions

No hazardous reactions known under normal conditions of use.

10.4. Conditions to avoid

Do not expose material to any source of ignition. Avoid moist atmosphere. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Oxidizing agents. Acid anhydrides. Aluminium. Halogenated compounds. Acids.

10.6. Hazardous decomposition products

In combustion emits carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:	LD50 Oral - rat – 5,045 mg/kg Remarks: Behavioural: Altered sleep time (including change in righting reflex). Behavioural: Somnolence (general depressed activity). LC50 Inhalation - rat – 8h - 16,000 ppm LD50 Dermal – rabbit – 12,800 mg/kg
Skin corrosion/irritation:	Skin - rabbit Result: Mild skin irritation
Serious eye damage:	Eyes - rabbit Result: Eye irritation – 24h

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Respiratory or skin sensitisation:	No sensitising effect known.
Germ cell mutagenicity:	Not known.
Carcinogenicity:	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification. IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol)
Reproductive toxicity:	Not known.
Aspiration hazard:	Not known.

Additional RTECS: NT8050000

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h EC50 - Algae - > 1,000.00 mg/l - 24 h

12.2. Persistence and degradability

Not known.

12.3. Bioaccumulative potential

Not known.

12.4. Mobility in soil

Not known.

12.5. Results of PBT and vPvB assessment

Not known.

12.6. Other adverse effects

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations	: 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.
Disposal of packaging	: Disposal must be made according to official regulations.

SECTION 14: Transport information

Air (ICAO)

1. UN Number: 1219
2. UN Proper shipping name: Isopropanol
3. Transport hazard class(es): 3
4. Packing group: II
5. Environmental hazards: No.
6. Special precautions for user: Not applicable.
7. Transport in bulk: Not applicable.

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Road (ADR)

1. UN Number: 1219
2. UN Proper shipping name: Isopropanol solution.
3. Transport hazard class(es): 3
4. Packing group: II
5. Environmental hazards: Yes.
6. Special precautions for user: Not applicable.
7. Transport in bulk: Not applicable.

Sea (IMDG)

1. UN Number: 1219
2. UN Proper shipping name: Isopropanol solution.
3. Transport hazard class(es): 3
4. Packing group: II
5. Environmental hazards: Marine pollutant: no.
6. Special precautions for user: Not applicable.
7. Transport in bulk: Not applicable.

SECTION 15: Regulatory information

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

Product is not subject to any additional regulations.

15.2. Chemical safety assessment

No chemical safety assessment

SECTION 16: Other information

ADR: Accord European sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service

Associated Risk Phrases According to European Directives 67/548/EEC

R11	Highly flammable
R36	Irritating to eyes
R67	Vapours may cause drowsiness and dizziness

Disclaimer

The product is listed for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this safety data sheet, or in combination with any other product or process is the responsibility of the user.