Safety Data Sheet

This safety data sheet meets the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008
and Regulation 2020/878

Date of issue 2023-05-25 Versie 2

Section 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE MANUFACTURER

1.1. Product identification

Product code	AC9510
Product name	Isopropyl Alcohol spray
Unique formula identifier	G170-F0H2-4009-WXD6

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

Identified uses	Cleaning electronic boards and plastic parts of computers/printers
Uses advised against	Do not use on humans and animals
	do not use for purposes other than those indicated.

1.3. Details of the supplier of the safety data sheet

Supplier
Intronics B.V
P.O. box 123, 3770 AC Barneveld
the Netherlands

For more information, please contact:
Technical support: +31 34 24 07 050

1.4 Emergency contact:

National Poisons Information Center / University Medical Center Utrecht
PO Box 85500, 3508 GA Utrecht, The Netherlands
+31 88 75 585 61
productnotificatie@umcutrecht.nl
https://nvic.umcutrecht.nl/nl/productinformatie

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 (CLP):


Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.


Warning, Eye Irrit. 2, Causes serious eye irritation.


Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

Product identification

Hazard pictograms:

Signal word

Danger

Hazard statements:

H222+H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER/doctor/... if you feel unwell.
P403 Store in a well-ventilated place.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions: None

Contains propan-2-ol

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Substances

N/A

3.2 Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 70% - < 80%	propan-2-ol; isopropyl alcohol; isopropanol	Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-2119457558-25-xxxx	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336
>= 10% - < 12.5%	propane	Index number: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 REACH No.: 01-2119486944-21-0046	2.2/1 Flam. Gas 1 H220 2.5 Press. Gas H280
>= 7% - < 10%	ethanol; ethyl alcohol	Index number: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-2119457610-43-xxxx	2.6/2 Flam. Liq. 2 H225
>= 5% - < 7%	Hydrocarbons, C4; Petroleum gas	Index number: 649-113-00-2 CAS: 87741-01-3 EC: 289-339-5 REACH No.: 01-2119480480-41-xxxx	2.5 Press. Gas H280 2.2/1 Flam. Gas 1 H220 DECLK (CLP)*

*DECLK (CLP): This substance is classified in accordance with Note K, Annex VI of EC Regulation CE 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation Remove casualty to fresh air and keep warm and at rest.

Skin contact Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

Eye contact After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately. Protect uninjured eye.

Ingestion Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

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

Main symptoms For symptoms and effects due to the contained substances see chapter 11

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment: Follow the doctor's instructions.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing material CO2 or Dry chemical fire extinguisher.

Unsuitable extinguishing material None in particular

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.
Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Keep containers cool with water spray.
Move undamaged containers from immediate hazard area if it can be done safely.
Normal elements for fire fighting, such as a self-contained compressed air open-circuit respirator (EN 137), fire-retardant suit (EN469), flame-retardant gloves (EN 659) and fire boots (HO A29 or A30).

Section 6: MEASURES FOR THE ACCIDENTAL RELEASE OF THE SUBSTANCE

6.1. Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand
Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

For containment:
Limit in case of leakage of significant quantities of product. Contain the spread of small quantities of product with earth, sand or other inert absorbent material.

For cleaning up:
Wash with plenty of water.
Wet clean or vacuum up solids.
Clear spills immediately

Other information:
Don't use a brush or compressed air for cleaning surfaces or clothing.

6.4. Reference to other sections

See also section 8 and 13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling of the substance or mixture

Advice on safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Do not use on extensive surface areas in premises where there are occupants.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Exercise the greatest care when handling or opening the container.
Use localized ventilation system.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Exercise the greatest care when handling the product. Avoid jolting and friction.

Hygiene measures Contamined clothing should be changed before entering eating areas. Do not eat or drink while working. Wash hands after use.

7.2. Conditions for safe storage, including incompatible products

Technical Measures store in a cool, well ventilated place, away from heat, flames, sparks or other sources of ignition

Storage conditions keep only in the original container away from sunlight neighborhoods. Avoid contact with skin and eyes, inhalation of vapours/mists/dusts. Do not use empty containers before they are cleaned. Contaminated clothing must be replaced before entering the dining areas. At work do not eat or drink. Avoid the accumulation of electrostatic charges. Do not smoke. Always keep in a well ventilated place. Store at below 50 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight. Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed.

Incompatible materials Keep away from acids.
Keep away from combustible materials.
Keep away from water or from damp surroundings.
See subsection 10.5
Instructions as regards storage premises:
Cool and adequately ventilated.
Safety electric system.

7.3. Specific end use

None in particular

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm
propane - CAS: 74-98-6
ACGIH
ethanol; ethyl alcohol - CAS: 64-17-5
ACGIH - STEL: 1000 ppm

Derived doses without effect (DNEL)

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Consumer: 319 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term (repeated)
Consumer: 89 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term (repeated)
Consumer: 26 mg/kg/d - Exposure: Human Oral - Frequency: Long Term (repeated)
Consumer: 888 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 500 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Predicted no effect concentration (PNEC)

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Target: Fresh Water - Value: 140.9 mg/l
Target: Marine water - Value: 140.9 mg/l
Target: Freshwater sediments - Value: 552 mg/kg
Target: Marine water sediments - Value: 552 mg/kg
Target: Soil (agricultural) - Value: 28 mg/kg

8.2. Exposure controls

Thermal Hazards	Do not expose to temperatures exceeding 50° c.
Eye / face protection	Eye glasses with side protection. EN 166
Hand protection	Protect hands with category II work gloves (ref. Directive 89/686 / EEC and standard EN 374). Use PVC or nitrile rubber gloves.
Skin and body protection	Wear work clothes with long sleeves and protective footwear for professional use of category II (ref.Directive 89/686 / CEE and norm EN ISO 20344). Wash with soap and water after removing protective clothing.
Respiratory protection	if the TLV thresholds are exceeded, use a mask with filter type A (against vapors of organic compounds) in accordance with EN 141.
Environmental exposure controls	emissions from production processes, including those from ventilation equipment should be inspected for the purposes of enforcement of environmental protection do not dispose of the product in the environment
Appropriate engineering controls:	None

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about basic physical and chemical properties

Properties	Value
Physical state:	Liquid
Colour:	Colourless
Odour:	sweet of solvent
Melting point/freezing point:	N.A.
Boiling point or initial boiling point and boiling range:	N.A.
Flammability:	flammable
Lower and upper explosion limit:	N.A.
Flash point:	< 0 ° C
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
pH:	N.A.
Kinematic viscosity:	N.A.
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient n-octanol/water (log value):	N.A.
Vapour pressure:	5 bar +/- 1
Density and/or relative density:	0.725 kg/l +/- 0.05
Relative vapour density:	>2

Particle characteristics:

Particle size:	N.A.

9.2. Other information

Properties	Value
Explosive properties:	section 10.3

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity	Avoid contact with strong acids and bases and oxidizing agents.
10.2. Chemical stability	Stable under normal conditions
10.3. Possible hazardous reactions	avoid mixing the product with strong oxidizers and strong acids
10.4. Conditions to avoid	Avoid the accumulation of electrostatic charges. keep away from heat, sources of ignition
10.5. Incompatible materials	It can generate flammable gases in contact with elementary metals, nitrides, inorganic sulfides, strong reducing agents. It can generate toxic gases in contact with inorganic sulfides, strong reducing agents
10.6. Hazardous decomposition products	during combustion it produces irritating gases the product is flammable, following combustion can lead to the formation of dangerous decomposition products

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity	Not classified Based on available data, the classification criteria are not met.
Skin corrosion / irritation	Not classified Based on available data, the classification criteria are not met.
Serious eye damage / eye irritation	The product is classified: Eye Irrit. 2 H319
Respiratory or skin sensitization	Not classified Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified Based on available data, the classification criteria are not met.
STOT - single exposure	The product is classified: STOT SE 3 H336
STOT - repeated exposure	Not classified Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified Based on available data, the classification criteria are not met.

Product information

Toxicological information of the main substances found in the product:

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 5840 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

ethanol; ethyl alcohol - CAS: 64-17-5
LD50 (RABBIT) ORAL: 6300 MG/KG
LD50 (RAT) ORAL SINGLE DOSE: 7060 MG/KG

11.2. Information on other hazards

Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
ALCOOL ISOPROPILICO Not classified for environmental hazards
Based on available data, the classification criteria are not met

Propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Aquatic acute toxicity: Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72
Endpoint: EC50 - Species: Fish > 100 mg/l - Duration h: 48

12.2. Persistence and degradability None
N.A.

12.3. Bioaccumulative potential N.A.

12.4. Mobility in the soil N.A.

12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects None

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Contaminated packaging Contaminated packaging should be sent for recovery or disposal in compliance with national regulations on waste management reuse if possible. Product residues are to be considered hazardous waste. disposal must be entrusted to authorised waste management, in compliance with national and, where appropriate, local.

Section 14: INFORMATION REGARDING TRANSPORT

14.1 UN / ID No	ADR-UN number:	1950
	IATA-Un number:	1950
	IMDG-Un number:	1950
14.2 UN Proper shipping name	ADR-Shipping Name:	AEROSOLS INFIAMMABILI
	IATA-Technical name:	FLAMMABLE AEROSOLS
	IMDG-Technical name:	FLAMMABLE AEROSOLS
14.3 Hazards class	ADR-Class:	2
	IATA-Class:	2
	IMDG-Class:	2
14.4 Packing group	ADR-Packing Group:	N.A.
	IATA-Packing group:	N.A.
	IMDG-Packing group:	N.A.
14.5 Environmental hazards		
Marine pollutant	No	
14.6 Special precautions for user	ADR-Transport category (Tunnel restriction code):	D
	IMDG-Technical name:	FLAMMABLE AEROSOLS

14.7 Maritime transport in bulk according to IMO instruments

Product is not transported in bulk

Section 15: REGULATION

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: None

Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1
Product belongs to category: P3a

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture.

Section 16: OTHER INFORMATION

Text of phrases referred to under heading 3:
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated

Hazard class and hazard category	Code	Description
Flam. Gas 1	2.2/1	Flammable gas, Category 1
Aerosols 1	2.3/1	Aerosol, Category 1
Press. Gas	2.5	Gases under pressure
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 11: Toxicological information
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aerosols 1, H222+H229	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method

Main bibliographic sources:
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities.
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

Date of issue 2022-05-12

Revision date 2023-05-25

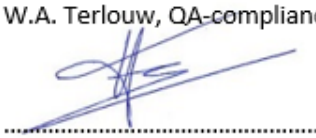
Reason for revision: Not applicable.

This safety data sheet is in accordance with the requirements of Regulation (EC) 1907/2006, 1272/2008 and regulation (EU) No 2020/878.

Disclaimer
The information in this SDS is prepared to the best of our ability and reflects the state of knowledge at the time of publication. The data is presented as a guideline for the safe handling, use, storage, transport, and disposal of the substance, and cannot be regarded as a guarantee certificate or quality specification. The information given relates to the substance as such and may no longer be valid when the substance is used together with other substances or in processes.

End of the safety data sheet

Intronics BV
W.A. Terlouw, QA-compliance officer



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