

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

Date of issue 2023-04-12

Version 3

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

1.1. Product identification

Product code AC9511
Product name Isopropyl Alcohol spray
Unique formula identifier 2NFA-027W-PX00-T8EX

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

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: +31 342 407 050




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(at)umcutrecht.nl
<http://www.productnotification.nl/>

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

-  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:

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.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions: None

Contains propan-2-ol; isopropyl alcohol; isopropanol
2-methylpropan-1-ol; iso-butanol

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 $\geq 0.1\%$

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 Nr. Reg.: 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
>= 15% - < 20%	propane	Index number: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Nr. Reg.: 01-2119486944-21-XXXX	 2.2/1 Flam. Gas 1 H220  2.5 Press. Gas H280
>= 7% - < 10%	butane	Index number: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7 Nr. Reg.: 01-2119474691-32-XXXX	 2.5 Press. Gas H280  2.2/1 Flam. Gas 1 H220
>= 3% - < 5%	and isobutane	Index number: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Nr. Reg.: 01-2119485395-27-XXXX	 2.5 Press. Gas H280  2.2/1 Flam. Gas 1 H220
>= 1% - < 2.5%	2-methylpropan-1-ol; iso-butanol	Index number: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Nr. Reg.: 01-2119484609-23-XXXX	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H335  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.8/3 STOT SE 3 H336

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 ophthalmologist immediately. Protect uninjured eye.
Ingestion	Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

4.2. Most important acute and delayed symptoms and effects

Main symptoms	None
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4.3. Indication of the requirement for immediate medical attention and special treatment

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:	None
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Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing material

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.
Move undamaged containers from immediate hazard area if it can be done safely.

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 cleaning up:
Wash with plenty of water.

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. 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.
Hygiene measures	Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working.

7.2. Conditions for safe storage, including incompatible products

Technical Measures	Cool and adequately ventilated
Storage conditions	Always keep in a well ventilated place. Store at below 20 °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 substances	None in particular.

7.3. Specific end use

Risk management measures (RBM) 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 - Notes: A4, BEI - Eye and URT irr, CNS impair

propane - CAS: 74-98-6

ACGIH - Notes: (D, EX) Asphyxia

butane - CAS: 106-97-8

ACGIH - STEL: 1000 ppm - Notes: (EX) CNS impair

and isobutane - CAS: 75-28-5

ACGIH - STEL: 1000 ppm - Notes: (EX) CNS impair

2-methylpropan-1-ol; iso-butanol – CAS: 78-83-1

ACGIH – TWA(8h): 50 ppm – Notes: Skin and eye irr

Derived doses without effect (DNEL) No information available.

Predicted no effect concentration (PNEC) No information available.

8.2. Measures to control exposure

Thermal Hazards None

Eye / face protection Use close fitting safety goggles, don't use eye lens.

Hand protection Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Skin and body protection Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or Viton

Respiratory protection Use adequate protective respiratory equipment.

Environmental exposure controls None

Appropriate engineering controls None

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about basic physical and chemical properties

Properties	Value
Appearance and colour:	Limpid colourless
Odour:	characteristic
Odour threshold:	N.A
pH:	N.A
Melting point / freezing point:	N.A
Initial boiling point and boiling range:	N.A
Flash point:	< 0 ° C
Evaporation rate:	N.A
Solid/gas flammability:	N.A
Upper/lower flammability or explosive limits:	N.A
Vapour pressure:	N.A
Vapour density:	N.A
Relative density:	0,8 gr/ml c.ca
Solubility in water:	Partial
Solubility in oil:	Total
Partition coefficient (n-octanol/water):	N.A
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A	--	--
Fat Solubility:	N.A	--	--
Conductivity:	N.A	--	--

Section 10: STABILITY AND REACTIVITY

<u>10.1. Reactivity</u>	Stable under normal conditions.
<u>10.2. Chemical stability</u>	Stable under normal conditions
<u>10.3. Possible hazardous reactions</u>	It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth), nitrides, and powerful reducing agents. It may catch fire on contact with oxidising mineral acids, elementary metals (alkalis and alkaline earth), nitrides, organic peroxides and hydroperoxides, oxidising agents, and reducing agents
<u>10.4. Conditions to avoid</u>	Stable under normal conditions
<u>10.5. Incompatible materials</u>	Avoid contact with combustible materials. The product could catch fire
<u>10.6. Hazardous decomposition products</u>	None

Section 11: TOXICOLOGICAL INFORMATION

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

Toxicological information of the product: N.A.

Toxicological information of the main substances found in the product:
N.A.

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitization;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

N.A.

12.2. Persistence and degradability None

12.3. Bioaccumulation N.A.

12.4. Mobility in the soil N.A.

12.5. Results of PBT and vPvB assessment None

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration
 $\geq 0.1\%$

12.7. Other harmful effects

None

Section 13: DISPOSAL INSTRUCTIONS
13.1. Waste treatment methods**Waste treatment methods**

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.

Section 14: INFORMATION REGARDING TRANSPORT
14.1 UN / ID No

ADR-UN number: 1950

IATA-Un number: 1950

IMDG-UN number: 1950

14.2 Proper shipping name

ADR-Shipping Name: Aerosol

IATA-Technical name: Aerosol

IMDG-Technical name: Aerosol

14.3 Hazards class

ADR-Class: 2

ADR-label: UN 1950 Aerosols – Limited quantity

IATA-Class: 2

IATA-Label: 2.1

IMDG-Class: 2

IMDG-Label: UN 1950 Aerosols – Limited quantity

14.4 Packing group

ADR-Packing Group: n.a.

14.5 Harmful to the environment

Marine pollutant:

No

14.6 Special Provisions

IMDG-Technical name: Aerosols

Limited Quantity: max 1000ml Total gross mass of Package
 not exceed 30kg LQ2

IMDG-EMS: F-D

IMDG-MFAG: S-U

14.7 Transport in bulk

N.a.

**in accordance with Annex II to
 MARPOL 73/78 and the IBC code**

Section 15: REGULATION
15.1. Specific safety, health and environmental regulations and legislation 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)
Regulation (EU) n. 2021/849 (ATP 17 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product

Restriction 3
Restriction 40

Restrictions related to the substances contained

Restriction 75

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

An explanatory list of abbreviations and acronyms used in the safety data sheet

Relevant hazard statements

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
H226 Flammable liquid and vapour.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H318 Causes serious eye damage.

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
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
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 14: Transport information

SECTION 15: Regulatory 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

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

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Revision date 2023-04-12

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 2015/830.

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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Signature