Safety Data Sheet

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

Date of issue 2020-10-21 Versie 1

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

1.1. Product identification

Product code EW5613

Product name Isopropyl Alcohol spray

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 34 24 07 050

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:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
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.
P264 Wash ... Thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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 Store in a well-ventilated place.
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
Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards
vPvB Substances: None - PBT Substances: None
Other Hazards: section 10.3

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%	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
>= 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
>= 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 classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 should apply. This note applies only to certain complex oil-derived substances in Part 3.

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 acute and delayed symptoms and effects

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

4.3. Indication of the requirement for immediate medical attention and special treatment

Notes to physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing material

Suitable extinguishing material CO2 or Dry chemical fire extinguisher.

Unsuitable extinguishing material Water

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.
Use fire fighter's clothing conforming to European standard EN469.

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.
Wet clean or vacuum up solids.
Clear spills immediately.

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	Contamined 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	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 substances	None known (based on information provided).

7.3. Specific end use

Risk management measures (RBM)	None known (based on information provided).

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
ethanol; ethyl alcohol - CAS: 64-17-5
ACGIH - STEL: 1000 ppm
propane - CAS: 74-98-6
ACGIH

Derived doses without effect (DNEL)	No information available.
Predicted no effect concentration (PNEC)	No information available.

8.2. Measures to control exposure

Thermal Hazards	Do not expose to temperatures exceeding 50° c.
Eye / face protection	Eye glasses with side protection. EN 166
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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information about basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Spray can	--	--
Odour:	characteristic	--	--
Odour threshold:	Not Relevant	--	--
pH:	Not Relevant	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	< 0 ° C	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not Relevant	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	4 bar +/-1 20°C	--	--
Vapour density:	Not Relevant	--	--
Relative density:	0.725 +/- 0.05	--	--
Solubility in water:	Not Relevant	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient (n-octanol/water):	Not Relevant	--	--
Auto-ignition temperature:	>175°C	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	Not Relevant	--	--
Explosive properties:	section 10.3	--	--
Oxidizing properties:	Not Relevant	--	--

9.2. Other information

Properties	Value	Method:	Notes:
kinematic viscosity:		--	--
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--
Conductivity:	Not Relevant	--	--
Substance Groups relevant properties	Not Relevant	--	--

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	May form explosive vapor / air mixtures in places not well ventilated
10.4. Conditions to avoid	Avoid the accumulation of electrostatic charges. keep away from heat, sources of ignition
10.5. Incompatible materials	Acids, alkalis and alkaline metals oxidizing agents
10.6. Hazardous decomposition products	By thermal decomposition can rid Cox during combustion it produces irritating gases

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity	Based on available data, the classification criteria are not met.
Skin corrosion / irritation	Based on available data, the classification criteria are not met.
Serious eye damage / eye irritation	The product is classified: Eye Irrit. 2 H319
Sensitization	Based on available data, the classification criteria are not met.
mutagenic effects	Based on available data, the classification criteria are not met.
carcinogenic effects	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	The product is classified: STOT SE 3 H336
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	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

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
Aquatic acute toxicity:	Negative - Classification derived from the classification of the components
Aquatic chronic toxicity:	Negative - Classification derived from the classification of the components
Bacteria toxicity:	Negative - Classification derived from the classification of the components
Terrestrial toxicity:	Negative - Classification derived from the classification of the components
Plant toxicity:	Negative - Classification derived from the classification of the components
Effects in sewage plants:	Negative - Classification derived from the classification of the components

Propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Aquatic acute toxicity:	Endpoint: EL50 - Species: Daphnia > 100 mg/l - Duration h: 48 Endpoint: EL50 - Species: Algae > 100 mg/l - Duration h: 72 Endpoint: EL50 - Species: Fish > 100 mg/l - Duration h: 48

12.2. Persistence and degradability No information available.

12.3. Bioaccumulation No information available.

12.4. Mobility in the soil No information available.

12.5. Results of PBT and vPvB assessment Not applicable

12.6. Other harmful effects No information available.

Section 13: DISPOSAL INSTRUCTIONS

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 Proper shipping name	Not applicable	
14.3 Hazards class	ADR-Class:	2.5°F CAP. 2.2.2.1.6 UN1950
	IATA-Class:	2.1
	IMDG-Class:	2 Aerosols UN 1950
14.4 Packing group	ADR-Packing Group:	N.A.
	IATA-Packing group:	N.A.
	IMDG-Packing group:	N.A.
14.5 Harmful to the environment	no	
Marine pollution	no	
14.6 Special Provisions	IMDG-Page:	2102
14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC code	No	

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) 2015/830
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)

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 information available

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

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 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 11: Toxicological information
SECTION 12: Ecological 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.
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 2020-10-21

Revision date Not applicable.

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
Shardene Brink, *compliance officer*

SIGNATURE