

B-SANYSAFE – B-SANISAFE SPRAY

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier:** Adantium Plus – FIS&DM srl
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Concentrated decontaminating disinfectant. For professional use.
- 1.3 Details of the supplier of the safety data sheet:** FIS&DM S.r.l.
Str. di Sabbione, 27/A TERNI - Italy
Tel.: 0744 455503 - Fax: 0744 455504
info@fisindustry.it - www.fisindustry.it
- 1.4 Emergency telephone number:** +39 02 66101029
(Niguarda Ca' Granda Poison Control Centre - Milan)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Directive 67/548/EC and Directive 1999/45/EC:

The classification of the product has been carried out in accordance with Directive 67/548/EC and Directive 1999/45/EC, adapting its provisions to Regulation (EC) No. 1907/2006 (REACH Regulation).
Xi: R36 - Irritating to eyes
N: Hazardous for the environment
R10 - Flammable

Regulation No. 1272/2008 (CLP):

The classification of this product has been carried out in accordance with Regulation No. 1272/2008 (CLP).

Eye Irrit. 2: Eye irritation, category 2
Flam. Liq. 3: Flammable liquid, category 3
Skin Irrit. 2: Skin irritation, category 2

Skin Sens. 1A: Skin sensitisation, category 1A
Aquatic Acute 1: Hazardous for the environment

2.2 Label elements:

Regulation No. 1272/2008 (CLP):

Caution



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
Aquatic Acute 1: H400 - Very toxic to aquatic life.

Precautionary statements:

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P272:
work clothing should not be allowed out of the workplace. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. P273: Avoid release to the environment. P397: Collect spillage. P332+P313: If skin irritation occurs: get medical advice/attention.
P362: Take off contaminated clothing and wash it before reuse. P370+P378: In case of fire: use ABC powder extinguisher to extinguish.
P501: Dispose of contents/container to hazardous or special waste collection points.

Additional information:

EUH208: Contains Citrus, essential oil of eucalyptus. May cause an allergic reaction.
EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

Substances contributing to the classification.

Essential oil of eucalyptus and citrus fruits, isopropyl alcohol and benzalkonium chloride.

2.3 Other hazards:

Not relevant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical description: Neutral solution

Composition:

In accordance with Annex II of Regulation (EC) No. 1907/2006 (point 3), the product contains:

Identification	Chemical name/classification		Concentration.
CAS: 67-63-0 EC: 200-661-7 Index: 603-117-00-0 REACH: 01-2119457558-25-XXXX	Isopropyl alcohol ATP CLP00		2.5 - <10 %
	Directive 67/548/EC	F: R11; Xi: R36; R67	
	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Hazard	
CAS: 68424-85-1 EC: 270-325-2 Index: Not applicable REACH: Not applicable	Benzalkonium chloride ATP CLP00		2.5 - <10 %
	Directive 67/548/EC	C: R34; N: R50; Xn: R21/22	
	Regulation 1272/2008	Acute Tox. 4: H302+H312; Aquatic Acute 1: H400; Skin Corr. 1B: H314 - Hazard	
CAS: 1126-71-2 EC: Not applicable Index: Not applicable REACH: Not applicable	N,N-Dimethylphenethylamine Self-assessed		1 - <2.5 %
	Directive 67/548/EC	Xi: R36/37/38	
	Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	
CAS: 60-00-4 EC: 200-449-4 Index: 607-429-00-8 REACH: 01-2119486399-18-XXXX	Edetic acid ATP ATP01		1 - <2.5 %
	Directive 67/548/EC	Xi: R36	
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	
CAS: Not applicable EC: Not applicable Index: Not applicable REACH: Not applicable	Citrus/eucalyptus essential oil Self-assessed		<1 %
	Directive 67/548/EC	Xi: R43; Xn: R65; R10	
	Regulation 1272/2008	Asp. Tox. 1: H304; Flam. Aerosol 3: H229; Flam. Liq. 3: H226; Skin Sens. 1: H317; Skin Sens. 1A: H317; Skin Sens. 1B: H317 - Hazard	

For more information on the hazards of substances see headings 8, 11, 12 and 16.

SECTION 4: FIRST AND MEASURES

4.1 Description of first aid measures:

Symptoms as a result of intoxication may occur after exposure, so if in doubt, direct exposure to the chemical or persistence of discomfort, seek medical attention by showing the product safety data sheet.

By inhalation:

This product is not classified as dangerous by inhalation, however it is recommended that in case of symptoms of intoxication, the affected person be removed from the place of exposure, kept in clean air and at rest. If symptoms persist, seek medical attention.

By skin contact:

Remove contaminated clothes and shoes, rinse skin or shower the infected person, if necessary use plenty of cold water and mild soap. In case of serious infection, seek medical attention. If the mixture causes burns or frostbite, do not remove clothing as this may worsen the wound if it is attached to the skin. If blisters form, they should not be burst under any circumstances as this increases the risk of infection.

For eye contact:

Flush eyes with plenty of water at room temperature for at least 15 minutes. Do not allow affected person to rub or close eyes. If the person involved wears contact lenses, these should be removed as long as they are not attached to the eyes, as this may cause additional damage. In all cases, a doctor should be consulted as soon as possible after washing with the safety data sheet of the product.

By ingestion:

Do not induce vomiting, if it occurs naturally keep the head tilted forward to avoid aspiration. Keep the affected person at rest. Rinse mouth and throat, as there is a possibility that they may have been damaged by ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Preferably use multi-purpose powder extinguishers (ABC powder), alternatively use physical foam or carbon dioxide (CO₂) extinguishers. The use of water jets as extinguishing agent is NOT recommended.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reaction, by-products are generated which may be highly toxic and therefore present a high health risk.

5.3 Advice for firefighters:

Depending on the severity of the fire, full protective clothing and self-contained breathing equipment may be required. Have a minimum of emergency equipment or intervention items (fire blankets, first aid kit, ...) available in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Accident and Emergency Response Information Sheets. Eliminate all sources of ignition. In case of fire, cool containers and storage tanks of products that may ignite, explode or BLEVE as a result of high temperatures. Avoid spilling fire extinguishing products into water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided this does not present an additional risk to persons carrying out this function. Evacuate the area and keep unprotected persons away. In case of potential contact with the spilled product, the use of personal protective equipment is mandatory (see section 8). Avoid as a priority the formation of flammable vapour-air mixtures, such as by ventilation or the use of an inerting agent. Eliminate all sources of ignition. Eliminate electrostatic charges by interconnecting all conductive surfaces on which static electricity can be generated and in turn by grounding the unit.

6.2 Environmental precautions:

Avoid spillage into the aquatic environment as it contains substances hazardous to it. Contain the absorbed product in hermetically sealed containers. In case of major spillage into water, notify the competent authorities.

6.3 Methods and material for containment and cleaning up:

It is recommended:

to absorb spillage with sand or inert absorbent and move to a safe place. not to absorb with sawdust or other flammable absorbent. Refer to section 13 for any disposal considerations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe handling

Comply with applicable legislation on the prevention of occupational hazards. Keep containers tightly closed. Control spillages and residues and dispose of them by safe means (section 6). Avoid free spillage from containers. Maintain order and cleanliness when handling dangerous products.

B.- Technical recommendations for fire and explosion prevention.

Transfer to well-ventilated places, preferably by localised extraction. Completely control ignition sources (mobile phones, sparks, ...) and ventilate during cleaning operations. Avoid dangerous atmospheres inside containers, using inerting systems as far as possible. Transfer slowly to avoid generating electrostatic charges. In case of possible electrostatic charges: ensure a perfect equipotential connection, always use grounded sockets, do not use acrylic fibre work clothes, preferably use cotton clothes or conductive shoes. Avoid spraying and misting. Meet the essential safety requirements for equipment and systems defined in Directive 94/9/EC (Legislative Decree 126/1998) and with the minimum provisions for the protection of workers' health and safety under the selection criteria of Directive 1999/92/EC (Legislative Decree. 233/2003). See section 10 on conditions and materials to be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks.

Avoid eating or drinking while handling and then take care to wash with appropriate products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material in the vicinity of the product (see section 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage Minimum T^a: 5 °C

Maximum T^a: 30 °C

Maximum time: 36 months

B.- General storage conditions

Avoid heat, radiation, static electricity and contact with food.

7.3 Specific end use(s):

Except for the indications already specified, it is not necessary to make any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters:

Substances for which occupational exposure limits must be controlled in the workplace (Legislative Decree 81/2008 and subsequent amendments and additions):

There are no environmental limit values for the substances that make up the mixture.

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Isopropyl alcohol CAS: 67-63-0 EC: 200-661-7	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	888 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	500 mg/m ³	Not relevant
Edetic acid CAS: 60-00-4 EC: 200-449-4	Oral	Not relevant	Not relevant	Not relevant	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	2.5 mg/m ³	2.5 mg/m ³	Not relevant	Not relevant

DNEL (Population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Isopropyl alcohol CAS: 67-63-0 EC: 200-661-7	Oral	Not relevant	Not relevant	26 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	319 mg/kg	Not relevant
	Inhalation	Not relevant	Not relevant	89 mg/m ³	Not relevant
Edetic acid CAS: 60-00-4 EC: 200-449-4	Oral	Not relevant	Not relevant	25 mg/kg	Not relevant
	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
	Inhalation	1.5 mg/m ³	1.5 mg/m ³	Not relevant	Not relevant

PNEC:

Identification				
Isopropyl alcohol CAS: 67-63-0 EC: 200-661-7	STP	2251 mg/L	Fresh water	140.9 mg/L
	Soil	28 mg/kg	Marine water	140.9 mg/L
	Intermittent	140.9 mg/L	Sediment (Fresh water)	552 mg/kg
	Oral	160 g/kg	Sediment (Marine water)	552 mg/kg
Edetic acid CAS: 60-00-4 EC: 200-449-4	STP	43 mg/L	Fresh water	2.2 mg/L
	Soil	0.72 mg/kg	Marine water	0.22 mg/L
	Intermittent	1.2 mg/L	Sediment (Fresh water)	Not relevant
	Oral	Not relevant	Sediment (Marine water)	Not relevant

8.2 Exposure control:

A.- General safety and hygiene measures in the working environment.

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the working day. The information contained in this point refers to the pure product. The protective measures for the diluted product may vary according to its degree of dilution, use, method of application, etc. When determining the requirement for emergency showers and/or eye drops in storage rooms, the applicable chemical storage regulations will be taken into account. For more information, read sections 7.1 and 7.2.

B.- Respiratory protection.

Protective equipment will be required if mist is formed or occupational exposure limits are exceeded.

C.- Specific hand protection.

C.- Specific hand protection.

Pictogram PRL	PPE	Marked	ECN Standards	Remarks
 Mandatory hand protection	Gloves for chemical protection	CE CAT I	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	Replace gloves before the first signs of wear appear.

D.- Eye and face protection

Pictogram PRL	PPE	Marked	ECN Standards	Remarks
 Mandatory face protection	Panoramic goggles against splashing liquid	CE CAT II	EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN 165:2005	Clean daily and disinfect periodically in accordance with the manufacturer's instructions

E.- Body protection

Pictogram PRL	PPE	Marked	ECN Standards	Remarks
 Mandatory body protection	Antistatic and flame retardant protective clothing	CE CAT III	EN 1149-1:2006 EN 1149-2:1997 EN 1149-3:2004 EN 168:2001 EN ISO 14116:2008/AC:2009 EN 1149-5:2008	Limited protection in case of flame.
 Mandatory protection of feet	Safety shoes with antistatic and heat-resistant properties	CE CAT III	EN 13287:2007 EN ISO 20345:2011 EN ISO 20344:2011	Replace boots before the first signs of wear appear.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eye bath	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

Due to EU environmental protection legislation it is recommended to avoid release of the product and its containers into the environment. For further information see section 7.1.D

Volatile organic compounds:

In application of Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply):	8.1 % weight
Density of V.O.C. at 20 °C:	81,3 kg/m ³ (81.3 g/L)
Average number of carbons:	3
Average molecular weight:	60,1 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

See product data sheet for complete information.

Physical appearance:

Physical state at 20 °C:	Liquid
Appearance/Colour:	Colourless
Odour:	Cobalt blue Fruity

Volatility:

Boiling point at atmospheric pressure:	Vapour	98 °C
pressure at 20 °C:		2424 Pa
Vapour pressure at 50 °C:)	12738 Pa (13 kPa)
Evaporation rate at 20 °C:		Not relevant *

Product characterisation:

Density at 20 °C:		1004 kg/m ³
Relative density at 20 °C:		1.004
Dynamic viscosity at 20 °C:		Not relevant *
Kinematic viscosity at 20 °C:		Not relevant *
Kinematic viscosity at 40 °C:		Not relevant *
Concentration:	pH:	Not relevant *
Vapour density at 20 °C:		Not relevant *
Partition coefficient: n-octanol/water at 20 °C:		Not relevant *
Solubility in water at 20 °C:		Not relevant *
Solubility properties:		Not relevant *
Decomposition temperature:		Not relevant *

Flammability:

Flash point:	50 °C
Auto-ignition temperature:	399 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available

9.2 Other information:

Surface tension at 20 °C:	Not relevant *
Refractive index:	Not relevant *

*Not applicable due to the nature of the product, they do not provide property information of its hazardousness.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reaction if the following technical instructions for storage of chemicals are followed. See section 7.

10.2 Chemical stability:

Chemically stable under conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

No hazardous reaction is expected due to temperature and/or pressure changes.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Heating	Sunlight	Humidity
Not applicable	Not applicable	Risk of ignition	Avoiding direct impact	Not applicable

10.5 incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Avoiding direct impact	Avoiding direct impact	Not applicable

10.6 Hazardous decomposition products:

See headings 10.3, 10.4 and 10.5 for specifics on decomposition products. Depending on decomposition conditions, complex mixtures of chemicals may be released as a result of decomposition: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

No experimental data is available regarding the toxicological properties of the mixture itself. The recommendations contained in chapter 3.2.5 of Annex VI (Directive 67/548/EC), in points b) and c) of paragraph 3 of Article 6 (Directive 1999/45/EC) and in chapter 3.2.3.3.5. of Annex I (Regulation No. 1272/2008) have been taken into account when classifying the hazard level relating to corrosive or irritant effects

Hazardous health effects:

In case of repeated, prolonged exposures or at concentrations higher than those established for occupational exposure limits, adverse health effects may occur depending on the route of exposure:

A.- Ingestion:

Based on available data, the classification criteria are not met, however, it has substances classified as hazardous if swallowed. For further information see section 3.

B- Inhalation:

Based on available data, the classification criteria are not met

C- Skin and eye contact:

Causes skin inflammation.

D- CMR effects (carcinogenicity, mutagenicity and reproduction toxicity):

Based on available data, the classification criteria are not met, as there are no substances classified as hazardous for the effects described. For further information see section 3.

E- Sensitisation effects:

Prolonged skin contact may cause episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT)-time of exposure:

Based on available data, the classification criteria are not met, however, it has substances classified as hazardous by inhalation. For further information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

Based on available data the classification criteria are not met, as it does not have any substances classified as hazardous for this effect. For more information read section 3.

H- Aspiration hazard:

Based on available data the classification criteria are not met. However, it has substances that are classified as hazardous for this effect. For more information read section 3.

Other information:

Not relevant

Substance specific toxicological information:

Identification	Acute toxicity		Genus
Isopropyl alcohol	LD50 oral	5280 mg/kg	Rat
CAS: 67-63-0	LC50 dermal	12800 mg/kg	Rat
EC: 200-661-7	LC50 inhalation	72.6 mg/L (4 h)	Rat
Benzalkonium chloride	LD50 oral	600 mg/kg	Rat
CAS: 68424-85-1	LC50 dermal	1560 mg/kg	Rat
EC: 270-325-2	LC50 inhalation	Not relevant	
Edetic acid	LD50 oral	2581 mg/kg	Rat
CAS: 60-00-4	LC50 dermal	Not relevant	
EC: 200-449-4	LC50 inhalation	Not relevant	

SECTION 12: ECOLOGICAL INFORMATION

No data are available on the mixture. However, to the best of our knowledge, there is no evidence that the product is environmentally hazardous

12.1 Toxicity:

Identification	Acute toxicity		Species	Genus
Isopropyl alcohol	CL50	9640 mg/L (96 h)	Pimephales promela	Fish
CAS: 67-63-0	EC50	13299 mg/L(48 h)	Daphnia magna	Crustacean
EC: 200-661-7	EC50	1000 mg/L(72 h)	Scenedesmus subspicatus	Algae
Benzalkonium chloride	CL50	0.85 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 63449-41-2	EC50	0.12 mg/L (48 h)	Daphnia magna	Crustacean
EC: 264-151-6	EC50	Not relevant		
Edetic acid	CL50	41 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 60-00-4	EC50	610 mg/L (24 h)	Daphnia magna	Crustacean
EC: 200-449-4	EC50	1.01 mg/L (72 h)	Scenedesmus subspicatus	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Isopropyl alcohol	BOD5	1.19 g O2/g	Concentration	100 mg/L
CAS: 67-63-0	COD	2.23 g O2/g	Period	14 days
EC: 200-661-7	BOD5/COD	0,53	Biodegradable %	86 %
Edetic acid	BOD5	Not relevant	Concentration	Not relevant
CAS: 60-00-4	COD	Not relevant	Period	Not relevant
EC: 200-449-4	BOD5/COD	3,5	biodegradable %	Not relevant

12.3 Bioaccumulative potential:

Identification		Bioaccumulative potential
Isopropyl alcohol CAS: 67-63-0 EC: 200-661-7	BCF	3
	Log POW	0.05
	Potential	Low
Edetic acid CAS: 60-00-4 EC: 200-449-4	BCF	13
	Log POW	-3.34
	Potential	Low

12.4 Mobility in soil:

Identification	Adsorption/desorption		Volatility	
	Isopropyl alcohol CAS: 67-63-0 EC: 200-661-7	Koc	1,5	Henry
Benzalkonium chloride CAS: 68424-85-1 EC: 270-325-2	Conclusion	Very high	Dry soil	Yes
	Surface tension	22400 N/m (25 °C)	Moist soil	Yes
	Koc	650000	Henry	Not relevant
Edetic acid CAS: 60-00-4 EC: 200-449-4	Conclusion	Immobile	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
	Koc	1046	Henry	0E+0 Pa m ³ /mol
	Conclusion	Low	Dry soil	No
	Surface tension	Not relevant	Moist soil	No

12.5 Results of PBT and vPvB assessment:

Not applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Type of waste (Directive 2008/98/EC)
07 04 04*	Other organic solvents, washing liquids and mother liquors	Hazardous

Waste management (disposal and valorisation):

Consult the authorised waste manager for valorisation and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC, Legislative Decree 205/2010). According to codes 15 01 (2000/532/EC), if the container has been in direct contact with the product it will be treated in the same way as the product itself, otherwise it will be treated as non-hazardous waste. Discharge into watercourses is not recommended. See section 6.2.

Residue management provisions:

In accordance with Annex II of Regulation (EC) No. 1907/2006 (REACH), EU or national regulations in relation to waste management are collected.

- EU legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000
- National legislation: Legislative Decree 25/2010

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

In application of ADR 2013 and RID 2013:

14.1 UN number:	UN1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID N.O.S. (Isopropyl alcohol)
14.3 Transport hazard 3 class(es):	
Labels:	3
14.4 Packing group:	III
14.5 Hazardous for the environment:	Yes
14.6 Special precautions for user	
Special provisions:	274, 601, 640E
Tunnel restriction code:	D/E
Physical-chemical properties:	see heading 9
LQ	5 L
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not relevant

Transport of dangerous goods by sea:

In application of IMDG 2011:

14.1 UN number:	UN1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID N.O.S. (Isopropyl alcohol)
14.3 Transport hazard class(es):	
Labels:	3
14.4 Packing group:	III
14.5 Hazardous for the environment:	Yes
14.6 Special precautions for user	
Special provisions:	223, 274, 944, 955
EmS codes:	F-E, S-E
Physical-chemical properties:	see heading 9
LQ:	5 L
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not relevant

Transport of dangerous goods by air:

In application of IATA/ICAO 2013:

14.1 UN number:	UN1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID N.O.S. (Isopropyl alcohol)

14.3 Transport hazard class(es):	3
Labels: 3	
14.4 Packing group:	III
14.5 Hazardous for the environment:	Yes
14.6 Special precautions for user	
Physical-chemical properties:	see heading 9
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not relevant

SECTION 15: REGULATORY INFORMATION

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

Substances subject to authorisation under Regulation (EC) 1907/2006 (REACH): Not relevant

Regulation (EC) 1005/2009 on substances that deplete the ozone layer: Not relevant

Active substances that have not been included in Annex I (Regulation (EU) No. 528/2012): Not relevant

Regulation (EC) 689/2008 concerning the export and import of dangerous chemicals: Not relevant

Restrictions on the marketing and use of certain dangerous substances and mixtures (Annex XVII, REACH):

Not relevant

Special provisions concerning the protection of persons or the environment:

It is recommended that the information compiled in this safety data sheet be used as input data in a risk assessment of local circumstances with the aim of establishing the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

Not applicable

15.2 Chemical safety assessment:

The provider has not carried out a chemical safety assessment.

SECTION 16: OTHER INFORMATION

Legislation applicable to safety data sheets:

This safety data sheet has been developed in accordance with Annex II-Guide for the preparation of Safety Data Sheets of Regulation (EC) No. 1907/2006 (Regulation (EC) No. 453/2010)

Changes to the previous MSDS regarding risk management measures:

Regulation No. 1272/2008 (CLP):

- Pictograms
- Hazard statements

- Precautionary statements

Texts of R-phrases covered in heading 3:

Directive 67/548/EC and Directive 1999/45/EC:

- R10: Flammable
- R11: Highly flammable
- R21/22: Harmful in contact with skin and if swallowed
- R34: Causes burns
- R36: Irritating to eyes
- R36/37/38: Irritating to eyes, respiratory system and skin
- R43: May cause sensitisation by skin contact
- R50: Very toxic to aquatic life
- R65: Harmful: may cause lung damage if swallowed
- R67: Vapours may cause drowsiness and dizziness

Regulation No. 1272/2008 (CLP):

- Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin
- Aquatic Acute 1: H400 - Very toxic to aquatic life.
- Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways
- Eye Irrit. 2: H319 - Causes serious eye irritation.
- Flam. Aerosol 3: H229 - Pressurised container: may burst if heated.
- Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
- Flam. Liq. 3: H226 - Flammable liquid and vapour.
- Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
- Skin Irrit. 2: H315 - Causes skin irritation.
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- Skin Sens. 1B: H317 - May cause an allergic skin reaction.
- STOT SE 3: H335 - May cause respiratory irritation.
- STOT SE 3: H336 - May cause drowsiness or dizziness.

Training advice:

Minimum training in occupational hazard prevention is recommended for personnel handling this product, with the aim of facilitating the understanding and interpretation of this safety data sheet, as well as the labelling of the product.

Main literature sources:

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

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

- IMDG: International Maritime Dangerous Goods Code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: Biological Oxygen Demand after 5 days
- BCF: Bioconcentration Factor
- LD50: Lethal Dose 50
- LC50: Lethal Concentration 50
- EC50: Effective Concentration 50
- Log POW: logarithm octanol-water partition coefficient
- Koc: partition coefficient of organic carbon

The information contained in this Safety Data Sheet is based on sources, technical knowledge and legislation in force at European and national level and cannot guarantee the accuracy of the information. This information cannot be regarded as a guarantee of the properties of the product, it is merely a description as to the safety requirements.

The methodology and working conditions of users of this product are beyond our knowledge and control, and it is always the user's own responsibility to take the necessary measures to comply with the legal requirements for handling, storing, using and disposing of chemicals. The information in this safety data sheet relates only to the product, which may be used for purposes other than those specified.