

SAFETY DATA SHEET

CASYblue

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

1.1 Product identifier

CASYblue

5651760

Liquid.

Not available.

: Product name

: Product code

: Product type

: Other means of identification

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

Special reagent for CASY® cell counters for differentiation of live and dead cells.

: Product use

Restrictions on use: For professional use only.

1.3 Details of the supplier of the safety data sheet

OMNI Life Science GmbH & Co. KG

Karl-Ferdinand-Braun-Strasse 2

28359 Bremen

Germany

Tel.: +49 421-276 169 0 (Monday to Thursday 08:00 - 17:00 h, Friday 08:00 - 16:00)

info@ols-bio.de

: Supplier's details

: e-mail address of person responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

972 4 854 19 00

: Telephone number

Supplier

04-7771900 / 972-37630639 CCN823152

: Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Mixture

: Product definition

Classification according to SI 2302 Part 1 – Dangerous Substances and Mixtures: Classification, Labelling, Marking and Packaging

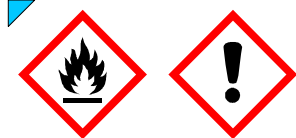
FLAMMABLE LIQUIDS - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

The product is classified as hazardous according to SI 2302 Part 1 – Dangerous Substances and Mixtures: Classification, Labelling, Marking and Packaging.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements



: Hazard pictograms

Danger

: Signal word

Highly flammable liquid and vapor.

: Hazard statements

Causes serious eye irritation.

Precautionary statements

SECTION 2: Hazards identification

Wear protective gloves and protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed.

: **Prevention**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

: **Response**

Store in a well-ventilated place. Keep cool.

: **Storage**

Not applicable.

: **Disposal**

Not applicable.

: **Supplemental label elements**

Special packaging requirements

Not applicable.

: **Containers to be fitted with child-resistant fastenings**

Not applicable.

: **Tactile warning of danger**

2.3 Other hazards

None known.

: **Other hazards which do not result in classification**

SECTION 3: Composition/information on ingredients

Mixture

: **3.2 Mixtures**

Type	Classification	%	Identifiers	Product/ingredient name
[2]	FLAMMABLE LIQUIDS - Category 2	50 - 69.99	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	ethanol
[1]	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 See Section 16 for the full text of the H statements declared above.	10 - 14.99	EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	Isopropyl alcohol

Specific Conc. Limits, M-factors and ATEs	Product/ingredient name
	ethanol
-	Isopropyl alcohol

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- ☒ Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. : **Eye contact**
- ☒ Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. : **Inhalation**
- ☒ Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. : **Skin contact**
- ☒ Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. : **Ingestion**
- ☒ No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. : **Protection of first-aiders**

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- ☒ Adverse symptoms may include the following: : **Eye contact**
 pain or irritation
 watering
 redness
- ☒ No specific data. : **Inhalation**
- ☒ No specific data. : **Skin contact**
- ☒ No specific data. : **Ingestion**

4.3 Indication of any immediate medical attention and special treatment needed

- ☒ Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. : **Notes to physician**
- ☒ No specific treatment. : **Specific treatments**

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

- ☒ Use dry chemical, CO₂, water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire. : **Suitable extinguishing media**
- ☒ Do not use water jet. : **Unsuitable extinguishing media**

5.2 Special hazards arising from the substance or mixture

- ☒ Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. : **Hazards from the substance or mixture**

SECTION 5: Firefighting measures

Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

: **Hazardous combustion products**

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

: **Special protective actions for fire-fighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

: **Special protective equipment for fire-fighters**

Vapors may form explosive mixtures with air.

: **Additional information**

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

: **For non-emergency personnel**

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

: **For emergency responders**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

: **6.2 Environmental precautions**

6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

: **Small spill**

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

: **Large spill**

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

: **6.4 Reference to other sections**

SECTION 7: Handling and storage

7.1 Precautions for safe handling

SECTION 7: Handling and storage

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

: **Protective measures**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

: **Advice on general occupational hygiene**

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

Safety report threshold	Notification and MAPP threshold	Category
50000 tonnes	5000 tonnes	P5c

7.3 Specific end use(s)

Not available.

: **Recommendations**

Not available.

: **Industrial sector specific solutions**

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

: **Recommended monitoring procedures**

DNELs/DMELs

Not applicable.

: **DNEL/DMEL Summary**

SECTION 8: Exposure controls/personal protection

PNECs

Not applicable.

: PNEC Summary

8.2 Exposure controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

: Appropriate engineering controls

Individual protection measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

: Hygiene measures

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

: Eye/face protection

Skin protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

: Hand protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

: Body protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

: Other skin protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

: Respiratory protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

: Environmental exposure controls

SECTION 9: Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Liquid.

: Physical state

Blue.

: Color

SECTION 9: Physical and chemical properties and safety characteristics

Alcohol-like.	: Odor
Not available.	: Odor threshold
Not available.	: pH
Not available.	: Melting point/freezing point
78°C (172.4°F)	: Boiling point or initial boiling point and boiling range
Highly flammable liquid and vapor.	: Flammability
13°C (55.4°F)	: Flash point
Not available.	: Lower and upper explosion limit/flammability limit
Not available.	: Auto-ignition temperature
Not available.	: Decomposition temperature
Dynamic (room temperature): Not available.	: Viscosity
Kinematic (room temperature): Not available.	
Kinematic (40°C): Not available.	
Not available.	: Solubility in water
Not applicable.	: Partition coefficient: n-octanol/water
Not available.	: Vapor pressure
Not available.	: Relative density
0.9 g/cm ³ [20°C (68°F)]	: Density
Not available.	: Vapor density
Particle characteristics	
Not applicable.	: Median particle size

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Vapors may form explosive mixtures with air.	: Explosive properties
No oxidizing ingredients present.	: Oxidizing properties

9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients.	: 10.1 Reactivity
The product is stable.	: 10.2 Chemical stability
Under normal conditions of storage and use, hazardous reactions will not occur.	: 10.3 Possibility of hazardous reactions
Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.	: 10.4 Conditions to avoid
Reactive or incompatible with the following materials: oxidizing materials	: 10.5 Incompatible materials
Under normal conditions of storage and use, hazardous decomposition products should not be produced.	: 10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Remarks	Dose [Exposure]	Result and Species	Product/ingredient name
✓	7000 mg/kg	Oral - Rat - LD50	ethanol
-	3450 mg/kg	Oral - Mouse - LD50	
-	20000 ppm [10 hours]	Inhalation - Rat - LC50 Vapor	
-	39 g/m ³ [4 hours]	Inhalation - Mouse - LC50 Vapor	
-	4570 mg/kg	Oral - Rat - LD50	Isopropyl alcohol
-	3600 mg/kg	Oral - Mouse - LD50	
-	6410 mg/kg	Oral - Rabbit - LD50	
-	13400 mg/kg	Dermal - Rabbit - LD50	
-	16000 ppm [4 hours]	Inhalation - Rat - LC50 Vapor	
-	53 mg/l [4 hours]	Inhalation - Mouse - LC50 Vapor	

Based on available data, the classification criteria are not met.

: **Conclusion/Summary**

Acute toxicity estimates

Inhalation (dusts and mists) (mg/l)	Inhalation (vapors) (mg/l)	Inhalation (gases) (ppm)	Dermal (mg/kg)	Oral (mg/kg)	Product/ingredient name
✓ N/A	N/A	N/A	N/A	7000	ethanol
N/A	N/A	N/A	13400	4570	Isopropyl alcohol

Irritation/Corrosion

Not available.

Causes serious eye irritation.

Not available.

Conclusion/Summary

: **Skin**

: **Eyes**

: **Respiratory**

Respiratory or skin sensitization

Not available.

Not available.

Conclusion/Summary

: **Skin**

: **Respiratory**

Mutagenicity

Not available.

: **Conclusion/Summary**

Carcinogenicity

Not available.

: **Conclusion/Summary**

Reproductive toxicity

Not available.

: **Conclusion/Summary**

Teratogenicity

Not available.

: **Conclusion/Summary**

Specific target organ toxicity (single exposure)

Target organs	Route of exposure	Category	Product/ingredient name
✓ Narcotic effects	-	Category 3	Isopropyl alcohol

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information

Not available.

Aspiration hazard

Not available.

Not available.

: Information on the likely routes of exposure

Potential acute health effects

Causes serious eye irritation.

: Eye contact

No known significant effects or critical hazards.

: Inhalation

No known significant effects or critical hazards.

: Skin contact

No known significant effects or critical hazards.

: Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Adverse symptoms may include the following:

pain or irritation

watering

redness

: Eye contact

No specific data.

: Inhalation

No specific data.

: Skin contact

No specific data.

: Ingestion

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Not available.

: Potential immediate effects

Not available.

: Potential delayed effects

Long term exposure

Not available.

: Potential immediate effects

Not available.

: Potential delayed effects

Potential chronic health effects

Not available.

Not available.

: Conclusion/Summary

No known significant effects or critical hazards.

: General

No known significant effects or critical hazards.

: Carcinogenicity

No known significant effects or critical hazards.

: Mutagenicity

No known significant effects or critical hazards.

: Reproductive toxicity

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

The product does not meet the criteria to be considered as having endocrine disrupting properties.

: Conclusion/Summary
[Human Health]

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Remarks	Species	Result [Exposure]	Product/ingredient name
✓	Fish - <i>Leuciscus idus</i>	Acute - LC50 8000 mg/l [48 hours]	ethanol
-	Fish - <i>Oncorhynchus mykiss</i>	Acute - LC50 7100 mg/l [48 hours] [OECD 203]	propan-2-ol
-	Daphnia - <i>Daphnia magna</i>	Acute - EC50 5400 mg/l [48 hours]	
-	Algae - <i>Scenedesmus quadricauda</i>	Chronic - EC10 5000 mg/l [7 days]	
-	Micro-organism - <i>Pseudomonas putida</i>	Acute - EC0 6500 mg/l [16 hours]	
-	Fish - <i>Oncorhynchus mykiss</i>	Acute - LC0 10000 mg/l [48 hours] [OECD 203]	
-	Fish - <i>Oncorhynchus mykiss</i>	Acute - LC50 12250 mg/l [48 hours] [OECD 203]	
-	Fish - <i>Oncorhynchus mykiss</i>	Acute - LC100 15000 mg/l [48 hours] [OECD 203]	
-	Daphnia - <i>Daphnia magna</i>	Acute - EC50 9500 mg/l [24 hours]	
-	Algae - <i>Scenedesmus quadricauda</i>	Acute - EC50 1800 mg/l [168 hours] [OECD 201]	propan-2-ol
-	Micro-organism - <i>Pseudomonas putida</i>	Acute - EC0 1050 mg/l [16 hours]	

Based on available data, the classification criteria are not met.

: **Conclusion/Summary**

12.2 Persistence and degradability

Remarks	Result	Test	Product/ingredient name
✓	99% [11 days] - Readily	OECD 302	propan-2-ol
-	57% [5 days]	OECD 302	

There are no data available on the mixture itself.

: **Conclusion/Summary**

Biodegradability	Photolysis	Aquatic half-life	Product/ingredient name
✓ Readily	-	-	ethanol
Readily	-	-	propan-2-ol

12.3 Bioaccumulative potential

Potential	BCF	LogP _{ow}	Product/ingredient name
✓ Low	-	0.05	propan-2-ol

12.4 Mobility in soil

SECTION 12: Ecological information

Soil/Water partition coefficient

Not available.

Results of PMT and vPvM assessment

vM	vP	vPvM	T	M	P	PMT	Product/ingredient name
<input checked="" type="checkbox"/> N/A	N/A	N/A	No	N/A	N/A	No	ethanol
N/A	N/A	N/A	No	N/A	N/A	No	propan-2-ol

Not available.

: **Mobility**

☒ The product does not meet the criteria to be considered as a PMT or vPvM.

: **Conclusion/Summary**

12.5 Results of PBT and vPvB assessment

vB	vP	vPvB	T	B	P	PBT	Product/ingredient name
<input checked="" type="checkbox"/> N/A	N/A	N/A	No	N/A	N/A	No	ethanol
N/A	N/A	N/A	No	N/A	N/A	No	propan-2-ol

☒ The product does not meet the criteria to be considered as a PBT or vPvB.

: **Conclusion/Summary**

12.6 Endocrine disrupting properties

☒ The product does not meet the criteria to be considered as having endocrine disrupting properties.

: **Conclusion/Summary**
[Environment]

12.7 Other adverse effects

☒ No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

☒ The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

: **Methods of disposal**

☒ The classification of the product may meet the criteria for a hazardous waste.

: **Hazardous waste**

Packaging





☒ The generation of waste should be avoided or minimized wherever possible.

: **Methods of disposal**

☒ This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

: **Special precautions**

SECTION 14: Transport information

IATA	IMDG	ADN	ADR/RID	
UN1987	UN1987	UN1987	UN1987	14.1 UN number or ID number
Alcohols, n.o.s. (ethanol, Isopropyl alcohol)	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	14.2 UN proper shipping name
3 	3 	3 	3 	14.3 Transport hazard class(es)
II	II	II	II	14.4 Packing group
No.	Marine Pollutant: No	No.	No.	14.5 Environmental hazards

Additional information**Hazard identification number** 33

: ADR/RID

Limited quantity 1 L**Special provisions** 601, 274, 640D**Tunnel code** (D/E)**Special provisions** 274, 601, 640D

: ADN

Emergency schedules F-E, S-D

: IMDG

Special provisions 274**Quantity limitation** Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. : IATA

Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities -

Passenger Aircraft: 1 L. Packaging instructions: Y341.

Special provisions A3, A180**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

: 14.6 Special precautions for user

Not applicable.

: 14.7 Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Other EU regulations**

Not listed

: Industrial emissions
(integrated pollution prevention and control) - Air

Not listed

: Industrial emissions
(integrated pollution prevention and control) - Water Not applicable.

: Explosive precursors

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

OECD Comprehensive Global PFAS Database

Not listed.

Inventory list

All components are listed or exempted.

: Australia

All components are listed or exempted.

: Canada

All components are listed or exempted.

: China

Russian Federation inventory: All components are listed or exempted.

: Eurasian Economic Union

Japan inventory (CSCL):

: Japan

All components are listed or exempted.

Japan inventory (ISHL):

All components are listed or exempted.

: New Zealand

All components are listed or exempted.

: Philippines

All components are listed or exempted.

: Republic of Korea

All components are listed or exempted.

: Taiwan

All components are listed or exempted.

: Thailand

All components are listed or exempted.

: Turkey

All components are listed or exempted.

: United States

All components are active or exempted.

: Viet Nam

All components are listed or exempted.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

ATE = Acute Toxicity Estimate

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

: **Abbreviations and
acronyms**

Procedure used to derive the classification

Justification	Classification
On basis of test data	FLAMMABLE LIQUIDS - Category 2
Calculation method	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

18/12/2025

: **Date of printing**

18/12/2025

: **Date of issue/ Date of
revision**

03/11/2022

: **Date of previous issue**

3

: **Version**

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.