

# SAFETY DATA SHEET

CASYblue



## Section 1. Identification

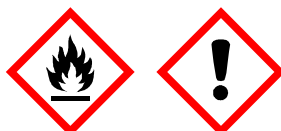
<b>Product identifier</b>	: CASYblue
<b>Other means of identification</b>	: Not available.
<b>Product code</b>	: 5651760
<b>Product use</b>	: Special reagent for CASY® cell counters for differentiation of live and dead cells. <b>Restrictions on use:</b> For professional use only.
<b>Supplier's details</b>	: 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)
<b>e-mail address of person responsible for this SDS</b>	: info@ols-bio.de
<b>Emergency telephone number (with hours of operation)</b>	: 1-800-424-9300 / +1 703-527-3887 (CCN823152)

## Section 2. Hazard identification

<b>Classification of the substance or mixture</b>	: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A
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### GHS label elements

**Hazard pictograms**



**Signal word** : Danger

**Hazard statements** : H225 - Highly flammable liquid and vapor.  
H319 - Causes serious eye irritation.

### Precautionary statements

<b>Prevention</b>	: P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P243 - Take action to prevent static discharges. P240 - Ground and bond container and receiving equipment. P233 - Keep container tightly closed. P264 - Wash hands thoroughly after handling.
<b>Response</b>	: P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
<b>Storage</b>	: P403 + P235 - Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Section 2. Hazard identification

Supplemental label elements :

Hazards not otherwise classified : Vapors may form explosive mixtures with air.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture  
 Other means of identification : Not available.  
 Product code : 5651760

Ingredient name	% (w/w)	Identifiers
Ethyl alcohol	≥60 - ≤80	CAS: 64-17-5
Isopropyl alcohol	≥10 - ≤30	CAS: 67-63-0

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

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

## Section 4. First-aid measures

### Description of necessary first aid measures

**Eye contact** : 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.

**Inhalation** : 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.

**Skin contact** : 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.

**Ingestion** : 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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

## Section 4. First-aid measures

<b>Eye contact</b>	: Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: No specific data.
<b>Ingestion</b>	: No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: No specific treatment.
<b>Protection of first-aiders</b>	: 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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog). Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Do not use water jet.

<b>Specific hazards arising from the chemical</b>	: 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.
<b>Hazardous thermal decomposition products</b>	: Decomposition products may include the following materials: carbon dioxide carbon monoxide

<b>Special protective actions for fire-fighters</b>	: 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.
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<b>Special protective equipment for fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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<b>Remark (Explosibility)</b>	: Vapors may form explosive mixtures with air.
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## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: 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.
<b>For emergency responders</b>	: 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".

<b>Environmental precautions</b>	: 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).
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## Section 6. Accidental release measures

### Methods and materials for containment and cleaning up

- Small spill** : 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.
- Large 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.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : 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.
- Advice on general occupational hygiene** : 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.

- 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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
ethanol	<b>CA Saskatchewan Provincial (Canada, 4/2021)</b> STEL 15 minutes: 1250 ppm. TWA 8 hours: 1000 ppm. <b>CA British Columbia Provincial (Canada, 6/2025)</b> STEL 15 minutes: 1000 ppm. <b>CA Ontario Provincial (Canada, 6/2019)</b> STEL 15 minutes: 1000 ppm. <b>CA Quebec Provincial (Canada, 2/2024)</b>

## Section 8. Exposure controls/personal protection

Isopropyl alcohol

C3.

STEV 15 minutes: 1000 ppm.

**CA Alberta Provincial (Canada, 3/2023)**

OEL 8 hours: 1000 ppm.

OEL 8 hours: 1880 mg/m<sup>3</sup>.**CA Saskatchewan Provincial (Canada, 4/2021)**

STEL 15 minutes: 400 ppm.

TWA 8 hours: 200 ppm.

**CA British Columbia Provincial (Canada, 6/2025)**

TWA 8 hours: 200 ppm.

STEL 15 minutes: 400 ppm.

**CA Ontario Provincial (Canada, 6/2019)**

TWA 8 hours: 200 ppm.

STEL 15 minutes: 400 ppm.

**CA Quebec Provincial (Canada, 2/2024)**TWA<sub>EV</sub> 8 hours: 200 ppm.

STEV 15 minutes: 400 ppm.

**CA Alberta Provincial (Canada, 3/2023)**OEL 15 minutes: 984 mg/m<sup>3</sup>.

OEL 8 hours: 200 ppm.

OEL 15 minutes: 400 ppm.

OEL 8 hours: 492 mg/m<sup>3</sup>.

### Biological exposure indices

None known.

### Appropriate engineering 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.

### Environmental exposure controls

- : 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.

### Individual protection measures

#### Hygiene 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.

#### Eye/face protection

- : 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.

#### Skin protection

##### Hand 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.



## Section 8. Exposure controls/personal protection

- Body 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.
- Other skin 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.
- Respiratory 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.
- Recommended:** In accordance with: CSA - Z94.4-11.

## Section 9. Physical and chemical properties

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

### Appearance

- Physical state** : Liquid.
- Color** : Blue.
- Odor** : Alcohol-like.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : 78°C (172.4°F)
- Flash point** : 13°C (55.4°F)
- Evaporation rate** : Not available.
- Flammability** :  Highly flammable liquid and vapor.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** : Not available.
- Relative vapor density** : Not available.
- Relative density** : Not available.
- Density** : 0.9 g/cm<sup>3</sup> [20°C (68°F)]
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** :  Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): Not available.
- Explosive properties** : Vapors may form explosive mixtures with air.
- Oxidizing properties** : No oxidizing ingredients present.
- Particle characteristics**
- Median particle size** : Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Vapors may form explosive mixtures with air. Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: 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.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. In a fire, decomposition may produce toxic gases/fumes.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

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

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Irritation/Corrosion

##### Conclusion/Summary

<b>Skin</b>	: Not available.
<b>Eyes</b>	: Causes serious eye irritation.
<b>Respiratory</b>	: Not available.

#### Respiratory or skin sensitization

##### Conclusion/Summary

<b>Skin</b>	: Not available.
<b>Respiratory</b>	: Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Classification

## Section 11. Toxicological information

Product/ingredient name	IARC	NTP	ACGIH
Isopropyl alcohol	3	-	A4

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

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

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

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.  
**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** : No known significant effects or critical hazards.

### Numerical measures of toxicity



## Section 11. Toxicological information

### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
CASYblue	30487.0	N/A	N/A	N/A	N/A
ethanol	7000	N/A	N/A	N/A	N/A
Isopropyl alcohol	4570	13400	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

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

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Persistence and degradability

## Section 12. Ecological information

Product/ingredient name	Test	Result	Remarks
Isopropyl alcohol	OECD 302	99% [11 days] - Readily	-
	OECD 302	57% [5 days]	-

**Conclusion/Summary** : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily
Isopropyl alcohol	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Isopropyl alcohol	0.05	-	Low

### Mobility in soil

**Soil/Water partition coefficient** : Not available.






**Mobility** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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.

## Section 14. Transport information

	TDG Classification	DOT Classification	ADR/RID	IMDG	IATA
UN number	UN1987	UN1987	UN1987	UN1987	UN1987
UN proper shipping name	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)	Alcohols, n.o.s. (ethanol, Isopropyl alcohol)
Transport hazard class(es)	3	3	3	3	3
Label					
Packing group	II	II	II	II	II

## Section 14. Transport information

Environmental hazards	No.	No.	No.	Marine Pollutant: No	No.
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### Additional information

<b>TDG Classification</b>	: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). <b><u>Explosive Limit and Limited Quantity Index</u></b> 1 <b><u>Passenger Carrying Road or Rail Index</u></b> 5 <b><u>Special provisions</u></b> 16, 150
<b>DOT Classification</b>	: <b><u>Limited quantity</u></b> Yes. <b><u>Packaging instruction</u></b> Exceptions: 4b, 150. Non-bulk: 202. Bulk: 242. <b><u>Quantity limitation</u></b> Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L. <b><u>Special provisions</u></b> 172, IB2, T7, TP1, TP8, TP28
<b>ADR/RID</b>	: <b><u>Hazard identification number</u></b> 33 <b><u>Limited quantity</u></b> 1 L <b><u>Special provisions</u></b> 601, 274, 640D <b><u>Tunnel code</u></b> (D/E)
<b>IMDG</b>	: <b><u>Emergency schedules</u></b> F-E, S-D <b><u>Special provisions</u></b> 274
<b>IATA</b>	: <b><u>Quantity limitation</u></b> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341. <b><u>Special provisions</u></b> A3, A180
<b>Special precautions for user</b>	: <b>Transport within user's premises:</b> 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.

## Section 15. Regulatory information

### Canadian lists

<b>Canadian NPRI</b>	: The following components are listed: ethanol; isopropyl alcohol
<b>CEPA Toxic substances</b>	: None of the components are listed.

### 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

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Eurasian Economic Union</b>	: <b><u>Russian Federation inventory</u></b> : All components are listed or exempted.
<b>Japan</b>	: <b><u>Japan inventory (CSCL)</u></b> :

## Section 15. Regulatory information

All components are listed or exempted.

### Japan inventory (ISHL):

All components are listed or exempted.

<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: All components are listed or exempted.
<b>Turkey</b>	: All components are listed or exempted.
<b>United States</b>	: All components are active or exempted.
<b>Viet Nam</b>	: All components are listed or exempted.

## Section 16. Other information

### History

**Date of printing** : 2025-12-18

**Date of issue/Date of revision** : 2025-12-18

**Date of previous issue** : 2022-06-02

**Version** : 4

**Key to abbreviations** : ADR = Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 DOT = Department of Transportation  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HPR = Hazardous Products Regulations  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SGG = Segregation Group  
 TDG = Transportation of Dangerous Goods  
 UN = United Nations

### Procedure used to derive the classification

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

**References** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.