

medilines  
**Safranin Solution**  
**SAFETY DATA SHEET**

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

**1.1 Product identifiers**

<b>Product name</b>	Medilines Safranin Solution for Gram Staining
<b>Pack size</b>	250ml, 500ml, 2.5 Litres
<b>Brand</b>	Medilines

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

<b>Identified uses</b>	Laboratory reagent.
<b>Uses advised against</b>	No specific uses advised against are identified.

**1.3 Details of the supplier of the safety data sheet**

<b>Company</b>	Diasonic, 31-Temple Road, Lahore.
<b>Telephone</b>	+92 42 37355780
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<b>Emergency mobile no.</b>	+92 300 9467610

<b>SECTION 2. Hazards identification</b>	
<b>2.1</b>	<b>Classification of the substance or mixture</b>

**Classification (EC 1272/2008)**

**Physical hazards** Flam. Liq. 3 - H226

**Health hazards** Not Classified

**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** R10

<b>2.2</b>	<b>Hazard pictograms: Label Elements</b>
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**Signal word** Warning

**Hazard statements** H226 Flammable liquid and vapour.

**Precautionary statements:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations

**Supplementary precautionary statements**

P240 Ground/ bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

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P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge.

<b>2.3</b>	<b>Other hazards</b>
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This product does not contain any substances classified as PBT or vPvB.

<b>SECTION 3. Composition/information on ingredients</b>	
<b>3.2</b>	<b>Mixtures</b>

<b>Ethanol</b>	<b>10 - &lt;25%</b>
CAS number: 64-17-5 EC number: 200-578-6	
Substance with National workplace exposure limits.	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 2 - H225	F; R11

<b>Methanol</b>	<b>10 - &lt;25%</b>	
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01- 2119433307-44-XXXX
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Flam. Liq. 2 - H225	F; R11. T; R23/24/25, R39/23/24/25	
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
STOT SE 1 - H370		

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<b>Glycerol</b>		1 - <2.5%
CAS number: 56-81-5	EC number: 200-289-5	
Substance with National workplace exposure limits.		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Not Classified	----	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4. First aid measures	
4.1	Description of first aid measures

**General information**      Keep affected person away from heat, sparks and flames

**Inhalation:**      Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist

**Ingestion**      Rinse mouth thoroughly with water. Do not induce vomiting unless under the direction of medical personnel. If in doubt, get medical attention promptly

**Skin contact**      Rinse cautiously with water for several minutes. Remove contaminated clothing. Wash contaminated clothing before reuse.

**Eye contact**      Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing

4.2	Most important symptoms and effects, both acute and delayed
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**Inhalation**      If large concentrations are inhaled: Dizziness. Drowsiness.

**Ingestion**      May cause discomfort if swallowed.

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**Skin contact** Causes mild skin irritation. Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** May cause temporary eye irritation.

4.3	<b>Indication of any immediate medical attention and special treatment needed</b>
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**Notes for the doctor** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

<b>SECTION 5. Fire fighting measures</b>	
5.1	<b>Extinguishing media</b>

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire

5.2	<b>Special hazards arising from the substance or mixture</b>
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**Specific hazards** Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember.

5.3	<b>Advice for fire-fighters</b>
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**Protective actions during firefighting** Fight fire from safe distance or protected location. Use water spray to reduce vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

**Special protective equipment for firefighters** Use air-supplied respirator, gloves and protective goggles. Wear positive-pressure selfcontained breathing apparatus (SCBA) and appropriate

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protective clothing. Use protective equipment appropriate for surrounding materials.

## SECTION 6. Accidental Release/ Spillage Measures:

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Follow precautions for safe handling described in this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

### 6.2 Environmental precautions

#### Environmental precautions

Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.3 Methods and material for containment and cleaning up

#### Methods for cleaning up

Take care as floors and other surfaces may become slippery. Contain spillage with sand, earth or other suitable non-combustible material. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 6.4 Reference to other sections

#### Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

## SECTION 7. Handling and storage

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<b>7.1</b>	<b>Precautions for safe handling</b>
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**Usage precautions** Avoid breathing vapours. Avoid contact with eyes and prolonged skin contact. Avoid the formation of mists. Ground/bond container and receiving equipment.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Take off contaminated clothing and wash it before reuse. Wash promptly with soap and water if skin becomes contaminated.

<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b>
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**Storage precautions** Keep at temperature not exceeding 25°C.

**Storage class** Flammable liquid storage

<b>7.3</b>	<b>Specific end use(s)</b>
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**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

<b>SECTION 8. Handling and storage</b>	
<b>8.1</b>	<b>Control parameters</b>

**Occupational exposure limit**

**Ethanol** Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

**Methanol** Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup>

Sk

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**Glycerol**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> mist

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

<b>8.2</b>	<b>Exposure controls</b>
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**Appropriate engineering controls**

Avoid inhalation of vapours and spray/mists. Good general ventilation should be adequate to control worker exposure to airborne contaminants. In case of insufficient ventilation, wear suitable respiratory equipment.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Frequent changes are recommended. The breakthrough time for any glove material may be different for different glove manufacturers.

**Other skin and body protection**

Wear anti-static protective clothing if there is a risk of ignition from static electricity.

**Hygiene measures**

Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented.

<b>SECTION 9. Physical and Chemical Properties</b>	
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<b>9.1</b>	<b>Information on basic physical and chemical properties</b>
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**Appearance**

Liquid.

**Colour**

Dark. Red.

**Odour**

Alcoholic.

**pH**

Not relevant.

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<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	78 - 100°C @ 1013 hPa.
<b>Flash point</b>	~ 47°C.
<b>Evaporation rate</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not relevant.
<b>Relative density</b>	Not determined.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

<b>9.2</b>	<b>Other information</b>
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**Other information**                      None

<b>SECTION 10. Stability and reactivity</b>	
<b>10.1</b>	<b>Reactivity</b>

**Reactivity**                                      No test data specifically related to reactivity available for this product or its ingredients.

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<b>10.2</b>	<b>Chemical stability</b>
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**Stability** Stable at normal ambient temperatures and when used as recommended.

<b>10.3</b>	<b>Possibility of hazardous reactions</b>
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**Possibility of hazardous reactions** Acids. Alkalis. Oxidising agents.

<b>10.4</b>	<b>Conditions to avoid</b>
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**Conditions to avoid** Avoid heat, flames and other sources of ignition.

<b>10.5</b>	<b>Incompatible materials</b>
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**Materials to avoid** Acids. Alkalis. Oxidising agents

<b>10.6</b>	<b>Hazardous decomposition products</b>
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**Hazardous decomposition products:** Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Nitrous gases (NO<sub>x</sub>). Hydrocarbons. Does not decompose when used and stored as recommended.

<b>SECTION 11. Toxicological information</b>
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<b>11.1</b>	<b>Information on toxicological effect</b>
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**Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 22,080.90443385

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 22,080.90443385

**Acute toxicity – inhalation**

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE inhalation (gases ppm)** 51,522.11034564

**ATE inhalation (vapours mg/l)** 220.80904434

**Skin corrosion/irritation**

**Animal data** Based on available data the classification criteria are not met.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

**Respiratory sensitisation**

**Respiratory sensitisation** Based on available data the classification criteria are not met.

**Skin sensitisation**

**Skin sensitisation** Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Carcinogenicity**

**Carcinogenicity** Based on available data the classification criteria are not met.

**Reproductive toxicity**

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

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**STOT - single exposure** Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** Based on available data the classification criteria are not met.

**Aspiration hazard**

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

**Toxicological information on ingredients.**

**Ethanol**

**Acute toxicity - oral**

**Acute toxicity oral** (LD<sub>50</sub> mg/kg) 10,470.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** REACH dossier information. Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 10,470.0

**Acute toxicity - inhalation**

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 124.7

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** REACH dossier information. Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)** 124.7

**Skin corrosion/irritation**

**Animal data** Dose: 0.2 ml, 24 hours, Rabbit Primary dermal irritation index: 0 / 8 REACH dossier information. Not irritating.

**Skin sensitisation**

**Skin sensitisation** Guinea pig maximization test (GPMT) - Mouse: Not sensitising. REACH dossier information. Read across data. Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

**Genotoxicity - in vitro** Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

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**Genotoxicity - in vivo** Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

#### Carcinogenicity

**IARC carcinogenicity** IARC Group 1 Carcinogenic to humans.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 15 %, Oral, Mouse P REACH dossier information.

**Reproductive toxicity – development** Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** LOAEL 4 mL/Kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

#### Methanol

##### **Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** International Programme on Chemical Safety (IPCS) (1997) Environmental Health Criteria 196: Methanol. Geneva, World Health Organization. Toxic if swallowed.

**ATE oral (mg/kg)** 300.0

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Converted acute toxicity point estimate (cATpE) Toxic in contact with skin.

**ATE dermal (mg/kg)** 300.0

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Converted acute toxicity point estimate (cATpE) Toxic if inhaled.

**ATE inhalation (gases ppm)** 700.0

**ATE inhalation (vapours mg/l)** 3.0

##### Skin corrosion/irritation

**Animal data** Dose: 2.5cm x 2.5cm, 20 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

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### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 1 - H370

**Target organs** Eyes Central nervous system

SECTION 12. Ecological Information	
12.1	Toxicity

**Toxicity** Based on available data the classification criteria are not met. However, large or frequent spills may have hazardous effects on the environment.

### **Ecological information on ingredients**

#### Ethanol

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow)  
REACH dossier information.

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia  
REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 11.5 mg/l, Chlorella vulgaris  
REACH dossier information.

**Chronic toxicity - aquatic invertebrates** NOEC, 9 days: 9.6 mg/l, Daphnia magna  
REACH dossier information.

#### Methanol

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill) EC<sub>50</sub>, 96 hours: 12700 mg/l, Lepomis macrochirus (Bluegill) REACH dossier information.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 96 hours: 18260 mg/l, Daphnia magna REACH dossier information.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata REACH dossier information.

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**Acute toxicity - microorganisms** IC<sub>50</sub>, 3 hours: >1000 mg/l, Activated sludge REACH dossier information.

<b>12.2</b>	<b>Persistence and degradability</b>
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**Persistence and degradability** There are no data on the degradability of this product. Volatile substances are degraded in the atmosphere within a few days.

**Ecological information on ingredients.**

**Ethanol**

**Biodegradation** Water - Degradation (74%): 10 days  
REACH dossier information.  
The substance is readily biodegradable.

**Chemical oxygen demand** 1.99 g O<sub>2</sub>/g substance REACH dossier information.

**Methanol**

**Phototransformation** Water - DT<sub>50</sub> : 17.2 days  
REACH dossier information.

**Biodegradation** Water - Degradation (95%): 20 days  
Water - Degradation (91%): 15 days  
Water - Degradation (88%): 10 days  
Water - Degradation (76%): 5 days  
REACH dossier information.  
The substance is readily biodegradable.

<b>12.3</b>	<b>Bioaccumulative potential</b>
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**Bioaccumulative potential** Not determined.

**Partition coefficient** Not determined.

**Ecological information on ingredients.**

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**Ethanol**

**Partition coefficient** log Pow: - 0.35 REACH dossier information.

**Methanol**

**Partition coefficient** log Pow: -0.77 REACH dossier information

<b>12.4</b>	<b>Mobility in soil</b>
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**Mobility** The product contains organic solvents which will evaporate easily from all surfaces. The product contains substances which are water-soluble and may spread in water systems.

**Ecological information on ingredients.**

**Ethanol**

**Surface tension** 24.5 mN/m @ 20°C/68°F REACH dossier information.

**Methanol**

**Mobility** Mobile.

<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>
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**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

<b>12.6</b>	<b>Other adverse effects</b>
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**Other adverse effects** Not relevant

<b>SECTION 13. Disposal considerations</b>
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<b>13.1</b>	<b>Waste treatment methods</b>
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**General information** Reuse or recycle products wherever possible. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

**Disposal methods** Absorb in vermiculite, dry sand or earth and place into containers. Place waste in labelled, sealed containers. Dispose of contents/container in accordance with national regulations.

<b>SECTION 14. : Transport information</b>	
<b>14.1</b>	<b>UN number</b>

**UN No. (ADR/RID)** 1993

**UN No. (IMDG)** 1993

**UN No. (ICAO)** 1993

**UN No. (ADN)** 1993

<b>14.2</b>	<b>UN proper shipping name</b>
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**Proper shipping name (ADR/RID)** FLAMMABLE LIQUID, N.O.S. (ethanol)

**Proper shipping name (IMDG)** FLAMMABLE LIQUID, N.O.S. (ethanol)

**Proper shipping name (ICAO)** FLAMMABLE LIQUID, N.O.S. (ethanol)

**Proper shipping name (ADN)** FLAMMABLE LIQUID, N.O.S. (ethanol)

<b>14.3</b>	<b>Transport hazard class(es)</b>
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ADR/RID class 3  
ADR/RID classification code F1  
ADR/RID label 3  
IMDG class 3  
ICAO class/division 3  
ADN class 3

Transport label



14.4	Packing group
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ADR/RID packing group III  
IMDG packing group III  
ADN packing group III  
ICAO packing group III

14.5	Environmental hazards
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Environmentally hazardous substance/marine pollutant No.

14.6	Special precautions for user
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<b>EmS</b>	F-E, S-D
<b>ADR transport category</b>	3
<b>Emergency Action Code</b>	•3Y
<b>Hazard Identification Number (ADR/RID)</b>	30
<b>Tunnel restriction code</b>	(D/E)

<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>
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**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Cod** Not applicable.

<b>SECTION 15. : Regulatory information</b>	
<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>

**National regulations** EH40/2005 Workplace exposure limits.

**EU legislation** Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

<b>15.2</b>	<b>Chemical safety assessment</b>
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No chemical safety assessment has been carried out.

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**SECTION 16. : : Other information****Classification procedures according to Regulation (EC) 1272/2008**

Flam. Liq. 3 - H226: Expert judgement.

Acute Tox. 4 - H332, STOT SE 1 - H370: Calculation method.

**Revision comments**

Classification modification.

**Revision date**

22/08/2022

**Revision**

3

**Supersedes date**

18/06/2021

**SDS number**

014

**Risk phrases in full**

R10 Flammable.

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

**Hazard statements in full**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs .

H370 Causes damage to organs (Eyes, Central nervous system).

**Further information****Diasonic**

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**Diasonic**

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