

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

1.1 Product identification:

Glass cleaner A00353 – A00354 – F0213

UFI: 09N8-T0GN-000M-YQ88

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

/

Use concentrations: /

1.3 Details regarding the provider of the safety data sheet:

Indufarm NV

Leon Bekaertstraat 5

8770 Ingelmunster (BELGIUM)

Tel: +32-51-624245 — Email: contact@indufarm.com Website: www.indufarm.com

1.4 Emergency telephone number:

+32 51 62 42 45

2 SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification of the substance or mixture according to CLP, Regulation (EC) 1272/2008:

H319 Eye Irrit. 2

2.2 Label elements:

Icons:



Signal word:

Warning

Hazard Statements:

H319 Eye Irrit. 2: Causes serious eye irritation.

Safety recommendations:

P264: Wash hands thoroughly after working with this product.

P280: Protective gloves, protective clothing, eye protection, wear face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for one day amount of minutes; remove contact lenses, if possible; keep rinsing.

P337+P313: If eye irritation persists: consult a doctor.

Contains:

no

2.3 Other hazards:

no

3 SECTION 3: Composition/information on ingredients:

2-butoxyethanol	ÿ 9%	CAS no.: 111-76-2 EINECS: 203-905-0 REACH Registration No.: 01-2119475108-36 CLP Classification: H302 Acute toxic. 4 H312 Acute toxic. 4 H315 Skin Irrit. 2 H319 Eye Irrit. 2 H332 Acute toxic. 4
Isopropanol	ÿ 5%	CAS no.: 67-63-0 EINECS: 200-661-7 REACH Registration No.: 01-2119457558-25 CLP Classification: H225 Flam. Liq. 2 H319 Eye Irrit. 2 H336 STOT SE 3

For the full text of the H statements mentioned in this section, see section 16.

4 SECTION 4: First aid measures:

4.1 Description of first aid measures:

Always seek medical advice as soon as possible in case of serious or persistent disorders.

Skin contact: Rinse with water.

Eye contact: First rinse with plenty of water, then take to a doctor if necessary.

Ingestion: First rinse with plenty of water, then take to a doctor if necessary.

Inhalation: In case of severe or persistent disturbances: fresh air, rest and consult a doctor.

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

Skin contact: no

Eye contact: redness

Ingestion: diarrhea, headache, abdominal cramps, drowsiness, vomiting

Inhalation: no

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

no

5 SECTION 5: Firefighting measures:

5.1 Extinguishing media:

water spray, powder, foam, CO2

5.2 Special hazards arising from the substance or mixture:

no

5.3 Advice for firefighters:

Extinguishing media to avoid: no

6 SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances. Avoid breathing fumes, smoke, dust and vapor by staying upwind. Remove any soiled clothing or protective equipment after use and dispose of it safely.

6.2 Environmental precautions:

Do not allow to enter sewers or public waters.

6.3 Methods and material for containment and cleaning up:

Carefully collect spilled product and store in suitable containers. If necessary, allow it to be absorbed by absorbent material.

6.4 Reference to other sections:

For further information see sections 8 & 13.

7 SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Handle with care to avoid leaks.

7.2 Conditions for safe storage, including incompatibilities:

Store in tightly closed packaging in a closed, frost-free, ventilated area.

7.3 Specific end use(s):

/

8 SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:

Below is a list of hazardous components listed in section 3 for which the TLV values are known

Isopropanol 424 mg/m³, 2-butoxyethanol 98 mg/m³

8.2 Exposure controls:

Inhalation protection:	Respiratory protection not necessary. In case of nuisance exposure, use type ABEK gas masks. If necessary, use with sufficient exhaust ventilation.	
Skin protection:	Handle with nitrile gloves (EN 374). Minimum breakthrough time of > 480 minutes, thickness 0.35mm. Check gloves carefully before use. Gloves neat pull it out without touching the outside with your bare hand. The appropriateness for a specific workplace, consultation with the manufacturer of the protective gloves. Wash and dry hands.	
Eye protection:	Keep an eyewash bottle with clean water within reach. Close fitting safety goggles. Wear a face shield and protective suit in exceptional cases processing problems.	
Other protection:	Impermeable clothing, The type of protective equipment depends on the concentration and quantity of hazardous substances at the workplace in question.	

9 SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Melting point/melting range:	-10°C
Boiling point/boiling range:	82°C — 173°C
pH:	7.0
pH 1% diluted in water:	/
Vapor pressure at 20°C:	4 300 Pa
Vapor density:	Technically impossible
Relative density at 20°C:	0.9800 kg/l
Appearance at 20°C:	liquid
Flash point:	47°C
Flammability (solid, gas):	Technically impossible
Auto-ignition temperature:	230°C
Upper flammability or explosion limit (Vol %):	12,000%
Lower flammability or explosion limit (Vol %):	1,130%
Explosive properties:	Technically impossible
Oxidizing properties:	Technically impossible
Decomposition temperature:	/
Water solubility:	completely soluble
Partition coefficient n-octanol/water:	Technically impossible
Odor:	characteristic
Odor threshold:	Technically impossible
Dynamic viscosity at 20°C:	1 mPa.s
Kinematic viscosity at 40°C:	1 mm ² /s
Evaporation rate (n-BuAc = 1):	1,300

9.2 Other information:

Volatile Organic Compound (VOC):	13.19%
Volatile Organic Compound (VOC):	129.237 g/l

Flammability test:

no self-sustaining combustion

10 SECTION 10: Stability and reactivity:

10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical stability:

Avoid extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

no

10.4 Conditions to avoid:

Protect from sunlight. Do not expose to temperatures above 50°C

10.5 Incompatible materials:

acids, bases, oxidizing agents, reducing agents

10.6 Hazardous decomposition products:

No hazardous decomposition products are expected under recommended conditions of use.

11 SECTION 11: Toxicological information:

11.1 Information on toxicological effects:

H319 Eye Irrit. 2: Causes serious eye irritation.

Calculated acute toxicity, ATE oral: /

Calculated acute toxicity, ATE dermal: /

2-butoxyethanol	LD50, Oral, Rat:	1 200 mg/kg
	LD50, Dermal, Rabbit:	1 100 mg/kg
	LC50, Inhalation, 4h:	11 mg/l
Isopropanol	LD50, Oral, Rat:	γ 5,000 mg/kg
	LD50, Dermal, Rabbit:	γ 5,000 mg/kg
	LC50, Inhalation, 4h:	γ 50 mg/l

12 SECTION 12: Ecological information:

12.1 Toxicity:

2-butoxyethanol	LC50 (Pisces):	1474 mg/L (Oncorhynchus mykiss)(96h)
	EC50 (Daphnia):	1550 mg/L (48h)
	NOEC (Daphnia):	>100 mg/L (72h)
	EC50 (Algae):	911 mg/L (72h)
	NOEC (Algae):	>280 mg/L (72h)
Isopropanol	LC50 (Pisces):	10000 mg/l
	LC50 (Daphnia):	> 10000 mg/L (24h)

12.2 Persistence and degradability:

no additional data available

12.3 Bioaccumulative potential:

	Additional information:
Isopropanol	Log Pow: 0.05

12.4 Mobility in the soil:

WGK class (AwSV): 1
Water solubility: completely soluble

12.5 Results of PBT and vPvB assessment:

no additional data available

12.6 Other adverse effects:

no additional data available

13 SECTION 13: Disposal considerations:

13.1 Waste treatment methods:

The product may be discharged at the indicated use concentrations, if necessary, after neutralization to pH 7. Any restrictive measures taken by the local authority must always be observed.

14 SECTION 14: Transport information:

14.1 UN number:

does not apply

14.2 UN proper shipping name:

Not subject to ADR, IMDG, ICAO/IATA

14.3 Transport hazard class(es):

Class(es): does not apply
Identification number of the danger: does not apply

14.4 Packing group:

does not apply

14.5 Environmental hazards:

not environmentally hazardous

14.6 Special precautions for the user:

Hazard properties: does not apply
Additional instructions: does not apply

15 SECTION 15: Regulations:

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

WGK class (AwSV):	1
Volatile Organic Compound (VOC):	13.187%
Volatile Organic Compound (VOC):	129.237 g/l
Composition according Regulation (EC) 648/2004:	no

15.2 Chemical Safety Assessment:

No data available

16 SECTION 16: Other information:

Glossary of abbreviations:

ADR:	Accord européen relatif au transport international des marchandises Dangereuses par Route
ATE:	Estimated acute toxicity
BCF:	Bioconcentration factor
CAS:	Chemical Abstracts Service
CLP:	Classification, Labeling and Packaging of chemicals
EINECS:	European INventory of Existing Commercial chemical Substances
LC50:	median Lethal Concentration for 50% of subjects
LD50:	median Lethal Dose for 50% of subjects
No.:	number
PTB:	persistent, toxic, bioaccumulative
TLV:	Threshold Limit Value
WGK:	Water Hazard Class
WGK 1:	little hazardous to water
WGK 2:	dangerous for water
WGK 3:	very dangerous for water
vPvB:	very persistent and highly bioaccumulative substances

Explanatory list of the H-phrases used in this safety data sheet:

H225 Flam. Liq. 2: Highly flammable liquid and vapour. **H302 Acute toxic. 4:** Harmful if swallowed. **H312 Acute toxic. 4:** Harmful in contact with skin. **H315 Skin Irrit. 2:** Causes skin irritation. **H319 Eye Irrit. 2:** Causes serious eye irritation. **H332 Acute toxic. 4:** Harmful by inhalation. **H336 STOT SE 3:** May cause drowsiness or dizziness.

CLP Calculation Method:

Calculation method

Reason for revision, changes in the following sections:

Sections: 9.2, 15.1

MSDS reference number:

ECM-7564.00

This safety information sheet has been drawn up in accordance with Annex II/A of Regulation (EU) 2015/830. Classification is calculated in accordance with European Regulation 1272/2008 with their respective amendments. It has been prepared with the utmost care. However, we cannot accept liability for damage of any kind caused by the use of this data or the product in question. Before using this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.