

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3



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

1.1. Product identifier

Trade name/designation:

Rubix 150ml

Article No.:

X420001

UFI:

URW9-EK9Y-UU0Y-6HNY

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

Use of the substance/mixture:

Hand cleaner

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

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

Additional information:

This mixture does not present a health hazard except in the case of possible exceedance of the limit value at the workplace (see sections 3 and 8). This mixture does not present an environmental risk. Under normal conditions of use, there is no known or foreseeable adverse effect on the environment. foreseeable. The propellant gas is taken into account when determining the classification of the mixture for health and environment.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02
Flame

Signal word: Danger

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.

Precautionary statements Storage	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

Other adverse effects:

The mixture does not contain any substance of very high concern (SVHC) $\geq 0.1\%$ published by the European Chemical Agency (ECHA) according to Article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>. The mixture does not meet the criteria applied to PBT and vPvB mixtures, according to Annex XIII of REACH Directive (EC) No 1907/2006. The mixture does not contain any substance $\geq 0.1\%$ that is classified as a substance of very high concern (SVHC) according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or the Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Additional information:

STYRENE BUTADIENE COPOLYMER, AQUA, BUTANE / ISOBUTANE / PROPANE, DIMETHICONE, GLYCERIN, PARFUM, PHENOXYETHANOL, 2-BROMO-2-NITROPROPANE-1,3-DIOL, LINALOOL, CITRAL, LIMONENE.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger Acute Toxicity Estimate ATE (oral) $\geq 5,000$ mg/kg ATE (dermal) $\geq 5,000$ mg/kg ATE (inhalation, gases) 658 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	2.5 - < 10
CAS No.: 68002-80-2 EC No.: 268-094-8	Fatty acids, C14-18 and C16-18-unsatd., potassium salts Eye Irrit. 2 (H319) Warning	1 - < 2.5

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 75-28-5 EC No.: 200-857-2	isobutane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger	1 - < 2.5
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	propane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger Acute Toxicity Estimate ATE (oral) 5,840 mg/kg ATE (dermal) 13,900 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	1 - < 2.5

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation:

Remove casualty to fresh air and keep warm and at rest. Consult a doctor if symptoms persist.

In case of skin contact:

In case of skin reactions, consult a physician.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:

If small amounts are ingested (not more than one sip), rinse mouth with water and consult a doctor.

Do NOT induce vomiting. Keep at rest.

Consult a doctor and show him the label.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water mist, Water with additive AFFF (Aqueous Film Forming Foam), Halon, Foam, ABC-Powder, BC-Powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media:

Water jet

5.2. Special hazards arising from the substance or mixture

In case of fire, dense black smoke is often produced. Exposure to decomposition products can be harmful to health. Do not inhale smoke.

Hazardous combustion products:

Carbon monoxide, carbon dioxide, amorphous silicon dioxide, Formaldehyde

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Follow protective measures in sections 7 and 8. Remove all sources of ignition. Ventilate affected area.

6.1.2. For emergency responders

Personal protection equipment:

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Do not allow to enter into surface water or drains. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). In case of spillage into water or sewage system, inform the competent authorities. Use drums to dispose of the collected waste in accordance with the applicable regulations (see section 13).

6.3. Methods and material for containment and cleaning up

For cleaning up:

Preferably clean with a detergent, do not use organic solvents. Take up mechanically.

6.4. Reference to other sections

No further details.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wash hands before breaks and after work. Avoid contact with skin, eyes and clothes. Ensure good ventilation/extraction at the workplace. Personal protection equipment: see section 8. Take care for the labels and safety data sheets of the chemicals to be used. Do not breathe spray.

Fire prevent measures:

Handle in well ventilated areas. Vapours are heavier than air. They can spread on the ground and form explosive mixtures together with air. Prevent the formation of ignitable or explosive vapour-air concentrations. Avoid vapour concentrations above Avoid exposure limits. Do not spray on a flame or glowing object. Do not open by force or burn, even after use. Use the mixture in rooms without open flames or other ignition sources and with protected electrical equipment. Keep container tightly closed when not in use. Keep away from heat sources, sparks or open flames. Do not use tools that can produce sparks. Do not smoke. Prevent access for unauthorised persons.

Advices on general occupational hygiene

Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep only in the original container in a cool, well-ventilated place.

Further information on storage conditions:

Store away from heat, weather, moisture and frost.

7.3. Specific end use(s)

Recommendation:

No further details.

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SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m ³)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./SchichtMomentanwert)
MAK (AT)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m ³)
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Avoid contact with eyes. Use eye protection against liquid splashes. Safety goggles complying with standard EN 166 must be worn at all times during use.

Skin protection:

Hand protection:

Wear suitable protective gloves in case of prolonged or repeated skin contact.

Glove material:

PVC (polyvinyl chloride)

NBR (Nitrile rubber)

Skin protection:

Personnel must wear regularly washed work clothes. After contact with the product, all soiled parts of the body must be washed.

Respiratory protection:

FFP1

Gas and steam filter (combi-filter) according to standard EN 14387: AX (brown)

Particle filter device (EN 143): P1 (white)

In case of inadequate ventilation wear respiratory protection.

Other protection measures:

Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Ensure good ventilation/extraction at the workplace.

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8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: According to product designation

Odour: not determined

flammability: No data available

Odour threshold: not determined

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	10.5	
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Flash point	No data available	
Evaporation rate	No data available	
Auto-ignition temperature	No data available	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Density	No data available	
Relative density	< 1	
Bulk density	not applicable	
Water solubility	easily soluble	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

9.2. Other information

No further details.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Chemically stable under conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

At high temperatures, the mixture may release hazardous decomposition products, such as carbon monoxide, carbon dioxide, smoke or nitrogen oxide.

10.4. Conditions to avoid

The operation of devices/work equipment that produce flames or sparks or heat a metal surface (e.g. burners, electric arches, ovens, etc.) is not permitted in the work area/rooms. Avoid: Heating, heat, electrical charge, flames and hot surfaces, frost, ignition sources.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

No toxicological information is available for the mixture.

Acute dermal toxicity:

No toxicological information is available for the mixture.

Acute inhalation toxicity:

No toxicological information is available for the mixture.

Skin corrosion/irritation:

No toxicological information is available for the mixture.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

No toxicological information is available for the mixture.

Germ cell mutagenicity:

No toxicological information is available for the mixture.

Carcinogenicity:

No toxicological information is available for the mixture.

Reproductive toxicity:

No toxicological information is available for the mixture.

STOT-single exposure:

No toxicological information is available for the mixture.

STOT-repeated exposure:

No toxicological information is available for the mixture.

Aspiration hazard:

No toxicological information is available for the mixture.

11.2. Information on other hazards

Endocrine disrupting properties:

No toxicological information is available for the mixture.

SECTION 12: Ecological information

* 12.1. Toxicity

butane CAS No.: 106-97-8 EC No.: 203-448-7
LC₅₀ : 49.9 mg/L 4 d (fish)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.) Calculation with the ECOSAR programme v1.00.
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation using ECOSAR Program v1.00
propane CAS No.: 74-98-6 EC No.: 200-827-9
LC₅₀ : 9,640 mg/L 4 d (fish, Pimephales promelas)
LC₅₀ : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
LC₅₀ : 49.9 mg/L 4 d (fish)
EC₅₀ : >100 mg/L (Algae/water plant, Bacteria)
EC₅₀ : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00.
NOEC : 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00.
LOEC : 1,000 mg/L (Algae/water plant, Algae)
LOEC : 1,000 mg/L (Algae/water plant, Alge)
IC₅₀ : 11.3 mg/L 3 d (Algae/water plant)

Aquatic toxicity:

No further relevant information available.

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12.2. Persistence and degradability

butane CAS No.: 106-97-8 EC No.: 203-448-7
Biodegradation: Yes, rapidly
propane CAS No.: 74-98-6 EC No.: 200-827-9
Biodegradation: Yes, rapidly

Abiotic degradation:

No further relevant information available.

Biodegradation:

No further relevant information available.

12.3. Bioaccumulative potential

butane CAS No.: 106-97-8 EC No.: 203-448-7
Log K_{ow}: 1.09
propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{ow}: 1.09

Accumulation / Evaluation:

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

butane CAS No.: 106-97-8 EC No.: 203-448-7
Results of PBT and vPvB assessment: —
isobutane CAS No.: 75-28-5 EC No.: 200-857-2
Results of PBT and vPvB assessment: —
propane CAS No.: 74-98-6 EC No.: 200-827-9
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No further relevant information available.

12.7. Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Waste disposal must be carried out without risk to people and the environment, in particular to water, air, soil, fauna and flora. Disposal or recycling in accordance with valid legislation preferably by an authorised waste collector or a specialist waste management company. Do not contaminate soil or groundwater, do not dispose of waste in the environment.

Appropriate disposal / Package:

Uncleaned packaging: Only dispose of the container when it is empty. Do not remove the label(s) on the container. Return to an authorised disposal company.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
-			
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Tunnel restriction code: (D)	Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F	Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): Siehe SV277 Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U	Special Provisions: A145 A167 Limited quantity (LQ): Y203 Excepted Quantities (EQ): E0 Remark: IATA Packing Instructions - Passenger: 203 IATA Maximum Quantity - Passenger: 75 KG IATA-Verpackungsanweisung - Cargo: 203 IATA Maximum Quantity - Cargo: 150 KG

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Other regulations (EU):

Labelling of cosmetics (Regulation EC No 1223/2009): Allergenic fragrances: citral, d-limonene, linalool

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
12.1.	Toxicity

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14.3.	Transport hazard class(es)
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

* 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
IC ₅₀	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal (fatal) Concentration 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SVHC	substances of very high concern
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials

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is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.