

SAFETY DATA SHEET

Contact Spray

Section 1. Identification

GHS product identifier	: Contact Spray
Product code	: 111520
Other means of identification	: Not available.
Color	: Colorless.
Product type	: Aerosol.

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

Identified uses

Aerosol product

Uses advised against

Not applicable.

Supplier's details	: WEICON GmbH & Co. KG Königsberger Str. 255, 48157 Münster, Germany phone:+49 251 93220, email: info@weicon.de, URL: www.weicon.de
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e-mail address of person responsible for this SDS	: msds@weicon.de
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Emergency telephone number (with hours of operation)	: +1 202 464 2554 TRANSPORT (24 Hours/Day): +1 202 464 2554
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Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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Classification of the substance or mixture	: AEROSOLS - Category 1
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GHS label elements

Hazard pictograms



Signal word	: Danger
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Hazard statements	: H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if heated.
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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.
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Response	: Not applicable.
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Storage	: P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F/50 °C.
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Disposal	: Not applicable.
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Section 2. Hazards identification

Hazards not otherwise classified : None known.

Hazards identified when used : No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

Ingredient name	Synonyms	%	Identifiers
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		≥60 - ≤80	-
butane	n-BUTANE; Methylene methane; Diethyl; Butyl hydride; normal-Butane; butane, pure	≥10 - ≤30	CAS: 106-97-8
Isobutane	Propane, 2-methyl-; Propane, 2-methyl- (isobutane); 2-Methylpropane; Propane, 2-methyl; Methyl-2 propane; Trimethylmethane; 1,1-Dimethylethane	≥5 - ≤10	CAS: 75-28-5
Distillates (petroleum), hydrotreated light paraffinic	Baseoil - unspecified; Distillates, petroleum, hydrotreated light paraffinic; Mineral oil, petroleum distillates, hydrotreated light paraffinic; Mineral oil, petroleum distillates, hydrotreated (mild) light paraffinic; Distillates (petroleum), hydro-treated light paraffinic; Paraffin oil; DISTILLATES (PETROLEUM) HYDROTREATED LIGHT PARAFFINIC; DISTILLATES, HYDROTREATED LIGHT PARAFFINIC; ALIPHATIC HYDROCARBON, SULFURIZED; Distillates (petroleum), hydrotreated light paraffinic, Baseoil - unspecified	≥5 - ≤10	CAS: 64742-55-8
Distillates (petroleum), hydrotreated light naphthenic	Baseoil - unspecified; Distillates, petroleum, hydrotreated light naphthenic; Hydrotreated light naphthenic distillate, solvent extract, petroleum; Mineral oil, petroleum distillates, hydrotreated light naphthenic; Mineral oil, petroleum distillates, hydrotreated (severe) light naphthenic; Hydrotreated light naphthenic distillate (petroleum); Distillates (petroleum), hydro-treated light naphthenic; Hydrotreated light naphthenic distillate solvent extract (petroleum); Hydrotreated light naphthenic distillate;	≥5 - ≤10	CAS: 64742-53-6

Section 3. Composition/information on ingredients

2-butoxyethanol	Hydrotreated light naphthenic (petroleum) ethylene glycol monobutyl ether; butyl cellosolve; Ethanol, 2-butoxy-; Butylglycol; Ethylene glycol, mono-n-butyl ester; Jeffersol EB; Ektasolve EB; Dowanol EB; Butyl oxitol; EGBE; Butyl cellosolve7	≥1 - ≤5	CAS: 111-76-2
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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- 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** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
irritation
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

Specific hazards arising from the chemical : Extremely flammable aerosol. 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. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : 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 equipment 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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.
- For emergency responders** : 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".
- Environmental precautions** : 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).

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). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous.
- 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 away 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. 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
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics butane	None. NIOSH REL (United States, 10/2020) TWA 10 hours: 800 ppm. TWA 10 hours: 1900 mg/m ³ . CAL OSHA PEL (United States, 1/2025) TWA 8 hours: 1900 mg/m ³ . TWA 8 hours: 800 ppm. OSHA PEL 1989 (United States, 3/1989) TWA 8 hours: 800 ppm. TWA 8 hours: 1900 mg/m ³ . ACGIH TLV (United States, 1/2025) [Butane] Explosive potential. STEL 15 minutes: 1000 ppm.
Isobutane	NIOSH REL (United States, 10/2020) TWA 10 hours: 800 ppm. TWA 10 hours: 1900 mg/m ³ . ACGIH TLV (United States, 1/2025) [Butane] Explosive potential. STEL 15 minutes: 1000 ppm.
Distillates (petroleum), hydrotreated light paraffinic	NIOSH REL (United States, 10/2020) [OIL MIST MINERAL] TWA 10 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist. OSHA PEL (United States, 5/2018) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . ACGIH TLV (United States, 1/2025) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction.
Distillates (petroleum), hydrotreated light naphthenic	NIOSH REL (United States, 10/2020) [OIL MIST MINERAL] TWA 10 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist.

Section 8. Exposure controls/personal protection

2-butoxyethanol

OSHA PEL (United States, 5/2018) [Oil mist, mineral]

TWA 8 hours: 5 mg/m³.

ACGIH TLV (United States, 1/2025) [Mineral Oil, pure, highly and severely refined] A4.

TWA 8 hours: 5 mg/m³. Form: Inhalable fraction.

NIOSH REL (United States, 10/2020)

Absorbed through skin.

TWA 10 hours: 5 ppm.

TWA 10 hours: 24 mg/m³.

CAL OSHA PEL (United States, 1/2025)

Absorbed through skin.

TWA 8 hours: 97 mg/m³.

TWA 8 hours: 20 ppm.

OSHA PEL (United States, 5/2018) Absorbed through skin.

TWA 8 hours: 50 ppm.

TWA 8 hours: 240 mg/m³.

OSHA PEL 1989 (United States, 3/1989)

Absorbed through skin.

TWA 8 hours: 25 ppm.

TWA 8 hours: 120 mg/m³.

ACGIH TLV (United States, 1/2025) A3.

TWA 8 hours: 20 ppm.

Biological exposure indices

<u>Ingredient name</u>	<u>Exposure indices</u>
2-butoxyethanol	ACGIH BEI (United States, 1/2025) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.

Appropriate engineering controls

- : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, 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: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal 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. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2
- 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 : organic vapor (Type AX) and particulate filter

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** : Gas.
- Color** : Colorless.
- Odor** : Benzene-like.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not applicable.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: Not applicable.
- Fire point** : >200°C (>392°F)
- Evaporation rate** : Not available.
- Flammability** : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Highly flammable in the presence of the following materials or conditions: heat.
- Lower and upper explosion limit/flammability limit** : Not available.
- Vapor pressure** : Not available.
- Relative vapor density** : Not available.
- Relative density** : Not applicable.
- Density** : 0.7 g/cm³ [20°C (68°F)]
- Solubility in water** : 5 g/l
- Miscible with water** : No.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- Heat of combustion** : 10.77 kJ/g

Section 9. Physical and chemical properties

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): Not available.

Particle characteristics

Median particle size : Not applicable.

Aerosol product

Type of aerosol : Spray

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name

Result

butane

Rat - Inhalation - LC50 Vapor
658000 mg/m³ [4 hours]

Isobutane

Rat - Inhalation - LC50 Vapor
658000 mg/m³ [4 hours]

Distillates (petroleum), hydrotreated light paraffinic

Rat - Inhalation - LC50 Dusts and mists
3900 mg/m³ [4 hours]

Toxic effects: Behavioral - Tremor Lung, Thorax, or Respiration - Dyspnea Kidney, Ureter, and Bladder - Urine volume increased

Distillates (petroleum), hydrotreated light naphthenic

Rat - Oral - LD50
>5000 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity)

Rat - Inhalation - LC50 Dusts and mists
2180 mg/m³ [4 hours]

Toxic effects: Lung, Thorax, or Respiration - Structural or functional change in trachea or bronchi

2-butoxyethanol

Rat - Intraperitoneal - LD50
220 mg/kg

Rat - Intravenous - LD50
307 mg/kg

Rat - Unreported - LD50
917 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Lung, Thorax, or Respiration - Other changes

Mouse - Oral - LD50
1230 mg/kg

Toxic effects: Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed

Section 11. Toxicological information

activity) Other - Hair

Mouse - Intraperitoneal - LD50

536 mg/kg

Mouse - Intravenous - LD50

1130 mg/kg

Mouse - Unreported - LD50

1050 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Lung, Thorax, or Respiration - Other changes

Rabbit - Dermal - LD50

220 mg/kg

Rabbit - Intraperitoneal - LD50

220 mg/kg

Rabbit - Intravenous - LD50

252 mg/kg

Guinea pig - Oral - LD50

1200 mg/kg

Toxic effects: Behavioral - General anesthetic Gastrointestinal - Other changes Kidney, Ureter, and Bladder - Other changes

Guinea pig - Dermal - LD50

230 ul/kg

Mammal - species unspecified - Unreported - LD50

1500 mg/kg

Mouse - Oral - LD50

1167 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes Blood - Other hemolysis with or without anemia

Rat - Oral - LD50

917 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes Blood - Other hemolysis with or without anemia

Rabbit - Oral - LD50

320 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes Blood - Other hemolysis with or without anemia

Rat - Oral - LD50

250 mg/kg

Mouse - Subcutaneous - LDLo

500 mg/kg

Human - Oral - LDLo

143 mg/kg

Rat - Oral - LDLo

1500 mg/kg

Toxic effects: Lung, Thorax, or Respiration - Changes in pulmonary vascular resistance

Woman - Female - Oral - TDLo

600 mg/kg

Toxic effects: Behavioral - Coma Lung, Thorax, or Respiration - Dyspnea Changes in Chemistry or Temperature - Metabolic acidosis

Woman - Female - Oral - TDLo

7813 ul/kg

Toxic effects: Behavioral - Coma Vascular - BP lowering not characterized in autonomic section Changes in Chemistry or Temperature - Metabolic acidosis

Mammal - species unspecified - Intraperitoneal - TDLo

100 mg/kg

Toxic effects: Endocrine - Change in gonadotropins

Rat - Oral - TDLo

500 mg/kg

Section 11. Toxicological information

Toxic effects: Blood - Other hemolysis with or without anemia

Rat - Unreported - TDLo

250 mg/kg

Toxic effects: Blood - Change in clotting factors

Man - Male - Oral - TDLo

132 mg/kg

Toxic effects: Behavioral - Sleep Kidney, Ureter, and Bladder - Hematuria Changes in Chemistry or Temperature - Metabolic acidosis

Rat - Inhalation - LC50 Gas.

450 ppm [4 hours]

Toxic effects: Behavioral - Ataxia Gross Metabolite Changes - Weight loss or decreased weight gain

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name

Distillates (petroleum), hydrotreated light naphthenic

2-butoxyethanol

Result

Rabbit - Skin - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 0.5 MI

Rabbit - Skin - Severe irritant

Amount/concentration applied: 500 mg

Rabbit - Skin - Mild irritant

Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

2-butoxyethanol

Result

Rabbit - Eyes - Moderate irritant

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant

Amount/concentration applied: 100 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Section 11. Toxicological information

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
2-butoxyethanol	-	3	-

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light naphthenic	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

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	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

Section 11. Toxicological information

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 [Product] : 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

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)
Contact Spray	68057.1	N/A	N/A	170.1	N/A
butane	N/A	N/A	N/A	658	N/A
Isobutane	N/A	N/A	N/A	658	N/A
2-butoxyethanol	1200	N/A	N/A	3	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

2-butoxyethanol

Result

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon*
800 mg/l [48 hours]

Effect: Mortality

Acute - LC50 - Marine water

Fish - Inland silverside - *Menidia beryllina*
1250 ppm [96 hours]

Effect: Mortality

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
butane	1.09	-	Low
Isobutane	1.09	-	Low
2-butoxyethanol	0.81	-	Low

Mobility in soil

Soil/Water partition coefficient : 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	Aerosols	AEROSOLS	AEROSOLS	AEROSOLS	Aerosols, flammable
Transport hazard class(es)	2.1 	2.1 	2.1 	2.1 	2.1 
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Additional information

DOT Classification

: **Limited quantity** Yes.
Packaging instruction Exceptions: 306. Non-bulk: None. Bulk: None.
Quantity limitation Passenger aircraft/rail: 75 kg. Cargo aircraft: 150 kg.
Special provisions N82

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).
Explosive Limit and Limited Quantity Index 1
Passenger Carrying Road or Rail Index 75
Special provisions 80, 107

Mexico Classification

: **Special provisions** 63, 190, 277, 327, 344

IMDG

: **Emergency schedules** F-D, S-U
Special provisions 63, 190, 277, 327, 344, 381, 959

Section 14. Transport information

IATA : **Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203.
Special provisions A145, A167, A802

Special precautions for user : **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.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act (CAA) 112 regulated flammable substances: butane; Isobutane

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : AEROSOLS - Category 1

Composition/information on ingredients

Name	%	Classification
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	≥60 - ≤80	ASPIRATION HAZARD - Category 1
butane	≥10 - ≤30	FLAMMABLE GASES - Category 1A GASES UNDER PRESSURE - Compressed gas
Isobutane	≥5 - ≤10	FLAMMABLE GASES - Category 1A GASES UNDER PRESSURE - Compressed gas
Distillates (petroleum), hydrotreated light paraffinic	≥5 - ≤10	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light naphthenic	≥5 - ≤10	ASPIRATION HAZARD - Category 1
2-butoxyethanol	≥1 - ≤5	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

Section 15. Regulatory information

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2-butoxyethanol	111-76-2	≥1 - ≤5
Supplier notification	2-butoxyethanol	111-76-2	≥1 - ≤5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts

: The following components are listed: BUTANE; ISOBUTANE; MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT PARAFFINIC; MINERAL OIL, PETROLEUM DISTILLATES, HYDROTREATED LIGHT NAPHTHENIC; 2-BUTOXYETHANOL

New York

: None of the components are listed.

New Jersey

: The following components are listed: BUTANE; Isobutane; 2-BUTOXY ETHANOL

Pennsylvania

: The following components are listed: BUTANE; PROPANE, 2-METHYL-; ETHANOL, 2-BUTOXY-

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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.

Inventory list

Australia

: Not determined.

Canada

: Not determined.

China

: Not determined.

Eurasian Economic Union

: **Russian Federation inventory:** Not determined.

Japan

: **Japan inventory (CSCL):** Not determined.
Japan inventory (ISHL): Not determined.

New Zealand

: Not determined.

Philippines

: Not determined.

Republic of Korea

: Not determined.

Taiwan

: Not determined.

Thailand

: Not determined.

Turkey

: Not determined.

United States

: Not determined.

Viet Nam

: Not determined.

Section 16. Other information

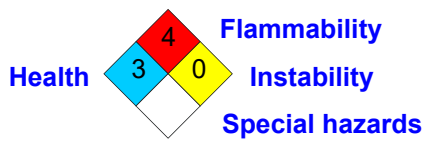
Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		4
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
AEROSOLS - Category 1	On basis of test data

History

Date of printing : 2/3/2026

Date of issue/Date of revision : ***

Date of previous issue : 11/4/2025

Version : 3.1

Key to abbreviations

- : ATE = Acute Toxicity Estimate
- : BCF = Bioconcentration Factor
- : DOT = Department of Transportation
- : GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- : IATA = International Air Transport Association
- : IBC = Intermediate Bulk Container
- : IMDG = International Maritime Dangerous Goods
- : IMO = International Maritime Organization
- : 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
- : SGG = Segregation Group
- : TDG = Transportation of Dangerous Goods
- : UN = United Nations

References

: Not available.

Indicates information that has changed from previously issued 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.