



SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

PTFE-Spray

Material number 113000

Revision date: 10/14/2015

Version: 1

Language: en-US

Date of print: 10/19/2015

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1. Product and company identification

Product identifier

Trade name: PTFE-Spray

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

General use: Technical aerosol

Details of the supplier of the safety data sheet

Company name: Weicon GmbH & Co. KG

Street/POB-No.: Königsberger Str. 255

Postal Code, city: 48157 Münster

Germany

WWW: www.weicon.de

E-mail: info@weicon.de

Telephone: +49 (0)251- 93 22-0

Telefax: +49 (0)251- 93 22-244

Dept. responsible for information:

Product-Safety-Department

Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

GIZ, Bonn (Germany)

Telephone: +49(0)228 / 19 240

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Form: Aerosol

Color: whitish

Odor: characteristic

Classification: Aerosol - Category 1; Skin Irritation - Category 2;
Specific Target Organ Toxicity (Single Exposure) - Category 3;
Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word: **Danger**

Hazard statements: Extremely flammable aerosol.
Pressurised container: May burst if heated.
Causes skin irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.



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Precautionary statements: Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing spray.
Wash hands and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection.
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see 'First aid' on this label).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Preparation of active ingredients with propellant

Hazardous ingredients:

CAS No.	Designation	Content	Classification
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	25 - 50 %	Flammable Liquid - Category 2. Skin Irritation - Category 2. Specific Target Organ Toxicity (Single Exposure) - Category 3. Aspiration Toxicity - Category 1. Aquatic toxicity - chronic - Category 2.
CAS 67-63-0	Isopropyl alcohol	2.5 - 5 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 74-98-6	Propane	25 - 50 %	Flammable Gas - Category 1. Compressed Gas.
CAS 75-28-5	Isobutane, pure	12.5 - 20 %	Flammable Gas - Category 1. Compressed Gas.
CAS 106-97-8	n-Butane, pure	12.5 - 20 %	Flammable Gas - Category 1. Compressed Gas.



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4. First aid measures

General information:	First aider: Pay attention to self-protection! Immediately remove any wetted clothing, shoes or stockings.
In case of inhalation:	Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical attention.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Seek medical attention.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.
After swallowing:	Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

May cause drowsiness or dizziness. Irritates skin and mucous membranes. Irritating to respiratory system. Inhalation causes narcotic effects/intoxication. Further hazardous properties cannot be excluded.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

not applicable

Auto-ignition temperature: not self-igniting

Suitable extinguishing media:

Alcohol resistant foam, dry chemical powder, carbon dioxide, water mist.

Extinguishing media which must not be used for safety reasons:

full water jet

Specific hazards arising from the chemical

Extremely flammable aerosol.

Do not expose to high temperature. Danger of bursting and explosion. Cool exposed containers with water spray.

May form dangerous gases and vapours in case of fire.

carbon monoxide and carbon dioxide.

Potentially explosive vapor/air mixtures may form.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions:

Do not breath gas/vapor/spray. Avoid contact with the substance.

Eliminate all ignition sources if safe to do so. Provide adequate ventilation.

Wear protective equipment. Keep unprotected people away.

Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

In case of release, notify competent authorities. Danger of explosion!



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Methods for clean-up: Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
Beware of reignition. Thoroughly clean surrounding area.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breath gas/vapor/spray.
Avoid contact with skin and eyes. Wear protective equipment.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:
Container under pressure. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Keep away from sources of ignition. - No smoking.
Take precautionary measures against static discharges.
Use only explosion-protected equipment/instruments. Do not weld.
In partially filled containers explosive mixtures may form. Vapors may form explosive mixtures with air.

Storage

Requirements for storerooms and containers:
Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight. Keep at temperature not exceeding 122 °F.
Store containers in upright position. Explosion protection required. Store locked up.

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-63-0	Isopropyl alcohol	USA: ACGIH: STEL	984 mg/m ³ ; 400 ppm
		USA: ACGIH: TWA	492 mg/m ³ ; 200 ppm
		USA: NIOSH: STEL	1225 mg/m ³ ; 500 ppm
		USA: NIOSH: TWA	980 mg/m ³ ; 400 ppm
		USA: OSHA: TWA	980 mg/m ³ ; 400 ppm
74-98-6	Propane	USA: NIOSH: TWA	1800 mg/m ³ ; 1000 ppm
		USA: OSHA: TWA	1800 mg/m ³ ; 1000 ppm
75-28-5	Isobutane, pure	USA: ACGIH: TWA	2370 mg/m ³ ; 1000 ppm
		USA: NIOSH: TWA	1900 mg/m ³ ; 800 ppm
106-97-8	n-Butane, pure	USA: ACGIH: TWA	2370 mg/m ³ ; 1000 ppm
		USA: NIOSH: TWA	1900 mg/m ³ ; 800 ppm



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Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-63-0	Isopropyl alcohol	USA: ACGIH-BEI, urine	40 mg/L	Acetone in urine	end of shift at end of workweek

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection	Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
Skin protection	Flame retardant, antistatic and chemical resistant protective clothing. Protective gloves according to OSHA Standard - 29 CFR: 1910.138 (Solvent resistant protective gloves). Glove material: Nitrile rubber - Layer thickness: 0.7 mm Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!
General hygiene considerations:	Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not breath gas/vapor/spray. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. When using do not eat, drink or smoke. Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: Aerosol Color: whitish
Odor:	characteristic
Odor threshold:	no data available
pH value:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	not applicable
Flash point/flash point range:	not applicable
Evaporation rate:	no data available
Flammability:	Extremely flammable aerosol.
Explosion limits:	LEL (Lower Explosion Limit): 0.90 Vol-% UEL (Upper Explosive Limit): 10.90 Vol-%
Vapor pressure:	at 68 °F: 3500 hPa
Vapor density:	no data available
Density:	at 68 °F: 0.601 g/mL



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Water solubility:	at 68 °F: slightly miscible
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	not self-igniting
Thermal decomposition:	no data available
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	446 °F
Solvent content:	98.3 %
Solid content:	1.1 %

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Container under pressure. Do not expose to high temperature. Danger of bursting and explosion.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct exposure to sunlight and temperatures exceeding 122 °F.
Incompatible materials:	Do not store together with combustible or self-igniting materials or any highly flammable solids.
Hazardous decomposition products:	May form dangerous gases and vapours in case of fire. carbon monoxide and carbon dioxide
Thermal decomposition:	no data available



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11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2000 mg/kg
Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2000 mg/kg
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 20 mg/L
Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.
Eye damage/irritation: Based on available data, the classification criteria are not met.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:
LD50 Rat, oral: > 5840 mg/kg (read across)
LD50 Rat, dermal: > 2800 mg/kg (read across)
LD50 Rat, inhalative: > 25.2 mg/L/4h
Information about Isopropyl alcohol:
LD50 Rat, oral: 5840 mg/kg (OECD 401)
LD50 Rabbit, dermal: 13900 mg/kg (OECD 402)
LC50 Rat, inhalative: > 25mg/L/4h (OECD 403)

Symptoms

May cause drowsiness or dizziness. Irritates skin and mucous membranes. Irritating to respiratory system. Inhalation causes narcotic effects/intoxication. Further hazardous properties cannot be excluded.

General remarks

For carcinogenic effects:
Information about CAS No. 67-63-0
Carcinogen Status:
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed



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12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.
Information about Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:
Algae toxicity:
EL50 Pseudokirchneriella subcapitata (green algae): 10 - 30 mg/L/72h (OECD 201)
Daphnia toxicity:
EL50 Daphnia magna (Big water flea): 3 mg/L/48h (OECD 202)
Fish toxicity:
LLC50 Oncorhynchus mykiss: > 11.4 mg/L/96h (OECD 203)

Mobility in soil

no data available

Persistence and degradability

Further details: no data available

Additional ecological information

Volatile organic compounds (VOC):

98.3 % by weight = 591 g/L

General information:

Avoid spills and leaks. Very small amounts contaminates drinking water.
Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Spray can must be completely empty for proper waste disposal.

14. Transport information

USA: Department of Transportation (DOT)

Identification numbers: UN1950
Proper shipping name: UN 1950, AEROSOLS
DOT hazard class or division: 2.1
Label codes: 2.1
Special provisions: N82
Packaging - Exceptions: 306
Packaging - Non-bulk: None
Packaging - Bulk: None
Quantity limitations - Passenger aircraft / rail: 75 kg
Quantity limitations - Cargo only: 150 kg
Vessel stowage - Location: A
Vessel stowage - Other: 25, 87, 126





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Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
IMDG: Class 2.1, Subrisk -
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 959
Limited quantities: 1000 mL
EQ: E0
Contaminated packaging - Instructions: P207, LP02
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: Yes
Segregation group: none

Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
ICAO/IATA: Class 2.1
Hazard: Flamm. gas
EQ: E0
Passenger Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special Provisioning: A145 A167 A802
ERG: 10L



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15. Regulatory information

U.S. Federal Regulations

Isopropyl alcohol:	TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed NIOSH Recommendations: Occupational Health Guideline: 0359
Propane:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f NIOSH Recommendations: Occupational Health Guideline: 0524
Isobutane, pure:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f NIOSH Recommendations: Occupational Health Guideline: 0350*
n-Butane, pure:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: Accidental Release Prevention: Threshold 10000 lbs. / Basis for listing = f NIOSH Recommendations: Occupational Health Guideline: 0068*

U.S. State Regulations

California Proposition 65: Not listed.

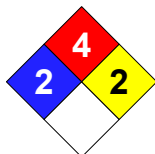
National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains 25 - 50 % Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, 2.5 - 5 % Isopropyl alcohol, 25 - 50 % Propane, 12.5 - 20 % Isobutane, pure, 12.5 - 20 % n-Butane, pure. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:
Health: 2 (Moderate)
Fire: 4 (Severe)
Reactivity: 2 (Moderate)
HMIS Version III Rating:
Health: 2 (Moderate)
Flammability: 4 (Severe)
Physical Hazard: 2 (Moderate)
Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	2
	X

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Department issuing data sheet

Contact person: see section 1: Dept. responsible for information



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