



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

OPN-UF 2000® Welding Separating Spray

Version number: 3.0
Revision: 2022-01-01

Date of compilation: 2017-12-05

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

- 1.1 Product identifier
Trade name OPN-UF 2000® Welding Separating Spray

Unique formula identifier (UFI) GY8C-35XV-W00C-KF0A
Other means of identification
Article number 60043
Tariff No. 38109090
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses Industrial use
Professional use

Sector of use Special welding spray
Uses advised against Do not use for products which come into contact with foodstuffs.
Do not use for private purposes (household).
- 1.3 Details of the supplier of the safety data sheet
OPN-CHEMIE GmbH
In der Au 14
57290 Neunkirchen

www.opn-chemie.de
Competent person responsible for the safety data sheet Barbara Angelika Gros-Petri
e-mail (competent person) baerbel.petri@opn-chemie.de
- 1.4 Emergency telephone number
Emergency information service Vergiftungs-Informations-Zentrale Freiburg +49(0)761/19240

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class | Hazard class and category | Hazard statement |
|---------|--------------|---------------------------|------------------|
| 2.3 | Aerosols | Aerosol 3 | H229 |

Remarks

For full text of abbreviations: see SECTION 16

- 2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Warning
Pictograms Not required

Hazard statements

H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P312 Call a POISON CENTER/doctor if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501 Dispose of contents / container in accordance with national regulations of the disposal.

- 2.3 Other hazards
of no significance

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

Mixture of substances listed below with nonhazardous additions

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|-------------------|--|---------|----------------------------|---|
| Carbon dioxide | CAS No 124-38-9 EC No 204-696-9 | 1 – < 5 | Press. Gas R / H281 |  |

3.3 Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray. BC-powder.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Remove persons to safety.
For emergency responders
Wear breathing apparatus if exposed to vapours/dust/spray/gases.
- 6.2 Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.
- 6.3 Methods and material for containment and cleaning up
Advice on how to contain a spill
Covering of drains.
Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.
- 6.4 Reference to other sections
Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
Recommendations
Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.
Advice on general occupational hygiene
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.
- 7.2 Conditions for safe storage, including any incompatibilities
Managing of associated risks
Storage class (LGK)
2 B
• Flammability hazards
Do not spray on an open flame or other ignition source. Protect from sunlight.
Control of effects
Protect against external exposure, such as
frost
Consideration of other advice
• Packaging compatibilities
Only packagings which are approved (e.g. acc. to ADR) may be used.
- 7.3 Specific end use(s)
No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
National limit values
This information is not available.
- 8.2 Exposure controls
Appropriate engineering controls
General ventilation.
Individual protection measures (personal protective equipment)
Eye/face protection
Do not spray in eyes. If required use tight-fitting goggles.
Skin protection
Hand protection
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

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Type of material

NR: natural rubber, latex.

Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

Operate if possible out of doors or in a well-ventilated place.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Aerosol (Spray aerosol)

Colour

White

Odour

Odourless

Initial boiling point and boiling range

Not applicable, as aerosol.*

Flammability (solid, gas)

non-flammable aerosol in accordance with GHS criteria

Explosive limits

Not determined

Flash point

Not applicable, as aerosol.*

PH (value)

6 – 8 (in aqueous solution: 1.01 g/ml, 20 °C)

Water solubility

Soluble

Vapour pressure

6 bar at 20 °C

Density

1.02 g/ml at 20 °C

9.2 Other information

Other safety characteristics

* The finished mixture in an aerosol container is formed after addition of propellant. Several details are not measurable in an hermetic closed, pressurized container.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided

High temperatures.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

• Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK (Germany) 1, slightly hazardous to water

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packageings

It is a dangerous waste; only packageings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be re-cycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

15 01 04 Metallic packaging

15 01 10 Packaging containing residues of or contaminated by dangerous substances

16 05 04 Containing hazardous gases in pressure containers (including halons)

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN

UN
1950

IMDG-Code

UN
1950

ICAO-TI

UN
1950

14.2 UN proper shipping name

ADR/RID/ADN

AEROSOLS

IMDG-Code

AEROSOLS

ICAO-TI

Aerosols, non-flammable

14.3 Transport hazard class(es)

ADR/RID/ADN

2
(2.2)

IMDG-Code

2.2

ICAO-TI

2.2

14.4 Packing group

Not assigned

14.5 Environmental hazards

Non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Additional information

Classification code

5A

Danger label(s)

2.2



Special provisions (SP)

190, 327, 344, 625

Excepted quantities (EQ)

E0

Limited quantities (LQ)

1 L

Transport category (TC)

3

Tunnel restriction code (TRC)

E

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International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant

-

Danger label(s)

2.2



Special provisions (SP)

63, 190, 277, 327, 344, 959

Excepted quantities (EQ)

E0

Limited quantities (LQ)

1 L

EmS

F-D, S-U

Stowage category

-

International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s)

2.2



Special provisions (SP)

A98, A145, A167

Excepted quantities (EQ)

E0

Limited quantities (LQ)

30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

none of the ingredients are listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

none of the ingredients are listed

Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol

Non-flammable

Labelling

Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.

Additional information

-

Industrial Emissions Directive (IED)

VOC content

0 %

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

| Pollutant release and transfer registers (PRTR) | | | |
|---|----------|---------|---|
| Name of substance | CAS No | Remarks | Threshold for releases to air (kg/year) |
| Carbon dioxide | 124-38-9 | | 100 million |

Water Framework Directive (WFD)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Germany)

Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water)(AwSV)

Water hazard class

1 (slightly hazardous to water)

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Technical instructions on air quality control (Germany)

| Number | Group of substances | Class | Conc. | Mass flow | Mass concentration | Notation |
|--------|---------------------|-------|--------------|-----------|----------------------|----------|
| 5.2.5 | Organic substances | | 5 – < 10 wt% | 0.5 kg/h | 50 mg/m ³ | 3) |

Notation

- 3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK)

2 B (Aerosol dispensers and lighters)

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| EU | REACH Reg. | Not all ingredients are listed |

Legend

REACH Reg. REACH registered substances

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 3, section 9, section 14

Einfügung: UFI: GY8C-35XV-W00C-KF0A

Abbreviations and acronyms

| | |
|-------------|--|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways). |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road). |
| ADR/RID/ADN | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN). |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances). |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. |
| DGR | Dangerous Goods Regulations (see IATA/DGR). |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union). |
| EINECS | European Inventory of Existing Commercial Chemical Substances. |
| ELINCS | European List of Notified Chemical Substances. |
| EmS | Emergency Schedule. |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations. |
| IATA | International Air Transport Association. |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA). |
| ICAO | International Civil Aviation Organization. |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air. |
| IMDG | International Maritime Dangerous Goods Code. |
| IMDG-Code | International Maritime Dangerous Goods Code. |
| LGK | Lagerklasse (storage class according to TRGS 510, Germany). |
| NLP | No-Longer Polymer. |
| PBT | Persistent, Bioaccumulative and Toxic. |
| Press. Gas | Gas under pressure. |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals. |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail). |
| SVHC | Substance of Very High Concern. |
| TRGS | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany). |
| VOC | Volatile Organic Compounds. |
| VPvB | Very Persistent and very Bioaccumulative. |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

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Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

H229 Pressurised container: May burst if heated.

H281 Contains refrigerated gas; may cause cryogenic burns or injury.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.