



Safety Data Sheet

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

OPN-UF 1000® Weld Separating Agent

Version number: 6.0
Revision: 2023-12-07

Date of compilation: 2015-10-16

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

1.1	Product identifier Trade name	OPN-UF 1000® Weld Separating Agent
	Unique formula identifier (UFI)	8U7C-H5YQ-W00X-Y0EG
	Other means of identification	
	Alternative name(s)	
	Article number	60030
	Tariff No	38109090
1.2	Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses	Professional uses Industrial uses Consumer uses Special welding spray Do not use for products which come into contact with foodstuffs
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 e-mail (competent person)	Barbara Angelika Gros-Petri baerbel.petri@opn-chemie.de
1.4	Emergency telephone number Emergency information service	Poison Information Center 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 state-ment
2.3	Aerosols	Aerosol 1	H222,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 Danger

Pictograms

GHS02



Hazard statements

H222 Extremely flammable aerosol.
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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
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.

Additional labelling requirements:

Buildup of explosive mixtures possible without sufficient ventilation.

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- 2.3 Other hazards
Results of PBT and vPvB assessment
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Endocrine disrupting properties
Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

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
Butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691- 32-xxxx	50 – < 75	Flam. Gas 1A / H220 Press. Gas L / H280	 
Propane	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944- 21-xxxx	10 – < 25	Flam. Gas 1A / H220 Press. Gas C / H280	 
Isobutane	CAS No 75-28-5 EC No 200-857-2 REACH Reg. No 01-2119485395- 27-xxxx	1 – < 5	Flam. Gas 1A / H220 Press. Gas C / H280	 

- 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.

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- 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.
Hazardous combustion products
Carbon monoxide (CO). Carbon dioxide (CO₂).
- 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.

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
Hazardous combustion products: see section 5. 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.
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.

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SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
National limit values
Occupational exposure limit values (Workplace Exposure Limits)
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.
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. In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).
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 | Colourless |
| Odour | Odourless |
| Initial boiling point and boiling range | Not applicable, as aerosol.* |
| Flammability (solid, gas) | flammable aerosol in accordance with GHS criteria |
| Explosive limits | 3 vol% - 15 vol% |
| Flash point | Not applicable, as aerosol.* |
| Water solubility | Insoluble |
| Vapour pressure | 4 bar at 20 °C
7 bar at 50 °C |
| Density | 0.59 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.

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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

Oxidisers.

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.

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

Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water) (AwSV): (Germany) nwg, non-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

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

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12.7 Other adverse effects
Data are not available.

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/packagings
It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. 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	UN
	ADR/RID/ADN	1950
	IMDG-Code	UN
	ICAO-TI	1950
14.2	UN proper shipping name	AEROSOLS
	ADR/RID/ADN	AEROSOLS
	IMDG-Code	AEROSOLS
	ICAO-TI	Aerosols, flammable
14.3	Transport hazard class(es)	2
	ADR/RID/ADN	(2.1)
	IMDG-Code	2.1
	ICAO-TI	2.1
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	5F
	Danger label(s)	2.1
		
	Special provisions (SP)	190, 327, 344, 625
	Excepted quantities (EQ)	E0
	Limited quantities (LQ)	1 L
	Transport category (TC)	2
	Tunnel restriction code (TRC)	D

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International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant

-

Danger label(s)

2.1



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)

2.1



Special provisions (SP)

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

Extremely flammable

Labelling

Keep out of reach of children. 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

91.5 %

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)

none of the ingredients are listed

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

Nwg (non-hazardous to water)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	Organic substances		≥ 25 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)

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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

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.	Yes
16.3	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. 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).	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 2020/878/EU. 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).	Yes

16.2 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).
ED	Endocrine disruptor.
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EmS	Emergency Schedule.
Flam. Gas	Flammable gas.
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.

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16.3 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 2020/878/EU.

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).

16.4 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).

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.

Disclaimer

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