



# Safety Data Sheet

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

## OPN-Weld Separating Agent UF 1000®

Version number: 3.0  
Revision: 12.02.2019

Date of compilation: 16.10.2015

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

- 1.1 Product identifier**  
Trade name **OPN-Weld Separating Agent UF 1000®**  
**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 industrial use  
professional use  
Sector of use Special welding spray  
Uses advised against consumer use (private households)  
Do not use for products that are intended for contact with food - exclude food contact.
- 1.3 Details of the supplier of the safety data sheet**  
OPN-CHEMIE OTTO PETRI GMBH  
In der Au 14  
D-57290 Neunkirchen/Germany  
Tel.: +49 (0) 2735 / 7725-0 Fax: +49 (0) 2735 / 7725-90  
E-Mail: info@opn-chemie.de Web: www.opn-chemie.de  
**Further information obtainable from:**  
Safety data sheets Mrs. Barbara Angelika Gros-Petri  
Tel.: +49 (0) 2735 / 7725-20 E-Mail: baerbel.petri@opn-chemie.de
- 1.4 24 hours Emergency telephone number:**  
Vergiftungs-Informations-Zentrale Freiburg +49 (0) 761 / 192 40

### 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 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**

P101 If medical advice is needed, have product container or label at hand.  
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.  
P260 Do not breathe vapours/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.

## 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  Index No 601-004-00-0  REACH Reg. No 01-2119474691-32- xxxx	50 - < 75	Flam. Gas 1 / 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 1 / H220 Press. Gas L / H280	
Isobutane	CAS No 75-28-5  EC No 200-857-2  REACH Reg. No 01-2119485395-27- xxxx	1 - < 5	Flam. Gas 1 / H220 Press. Gas L / 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**  
Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).
- 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**  
**Advices 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)								
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
DE	Butane	106-97-8	AGW	1.000	2.400	4.000	9.600	TRGS 900
DE	Propane	74-98-6	AGW	1.000	1.800	4.000	7.200	TRGS 900
DE	Isobutane	75-28-5	AGW	1.000	2.400	4.000	9.600	TRGS 900

##### Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)  
TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### 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.

##### 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

##### Appearance

Physical state Aerosol (Spray aerosol)

Colour Colourless

Odour Odourless

##### Other safety parameters

Initial boiling point and boiling range Not applicable, as aerosol.\*

Flash point Not applicable, as aerosol.\*

Flammability (solid, gas) Flammable aerosol in accordance with GHS criteria

Explosive limits

• Lower explosion limit (LEL) 3 vol%

• Upper explosion limit (UEL) 15 vol%

Vapour pressure 4 bar at 20 °C

Density 7 bar at 50 °C

Water solubility 0,59 g/cm<sup>3</sup> at 20 °C

Water solubility Insoluble

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Auto-ignition temperature	287 °C
Viscosity	Not relevant (Aerosol)

### 9.2 Other information

\* 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

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 toxicological effects

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.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.  
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (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

Data are not available.

#### 12.6 Other adverse effects

##### Endocrine disrupting potential

None of the ingredients are listed.

### 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	1950
14.2	UN proper shipping name	AEROSOLS
14.3	Transport hazard class(es)	
	Class	2 (Gases) (Aerosol)
	Subsidiary risk(s)	2.1 (Flammable)
14.4	Packing group	Not assigned to a packing group
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	Transport in bulk according to Annex II of MARPOL and the IBC Code	
	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)

UN number	1950
Proper shipping name	AEROSOLS
Class	2
Classification code	5F
Danger label(s)	2.1

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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
International Maritime Dangerous Goods Code (IMDG)	
UN number	1950
Proper shipping name	AEROSOLS
Class	2.1
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)	
UN number	1950
Proper shipping name	Aerosols, flammable
Class	2.1
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** -
- Deco-Paint Directive (2004/42/EC)**
- VOC content** 91,5 %  
539,9 g/l
- Directive on industrial emissions (VOCs, 2010/75/EU)**
- VOC content** 91,5 %
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**  
none of the ingredients are listed
- Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**  
none of the ingredients are listed

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### Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

none of the ingredients are listed

### Regulation 648/2004/EC on detergents

#### Labelling of contents.

Aliphatic hydrocarbons.

30 % and more.

#### National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water)(AwSV)

Wassergefährdungsklasse, WGK (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 <sup>3</sup>	3)

#### Notation

3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, 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)

### 15.2 Chemical Safety Assessment

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

## SECTION 16: Other information

### 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 européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
AGW	Workplace exposure limit.
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.
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.
IMDG	International Maritime Dangerous Goods Code.
Index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008.
LGK	Lagerklasse (storage class according to TRGS 510, Germany).
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
NLP	No-Longer Polymer.
PBT	Persistent, Bioaccumulative and Toxic.
Ppm	Parts per million.
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).
STEL	Short-term exposure limit.
SVHC	Substance of Very High Concern.
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900).
TWA	Time-weighted average.
VOC	Volatile Organic Compounds.
VPvB	Very Persistent and very Bioaccumulative.



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### 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).

### 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 chapter 2 and 3)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurized 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.