



Safety Data Sheet

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

OPN-Ceramic Paste Spray

Version number: 2.0
Revision: 15.06.2017

Date of compilation: 13.04.2016

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

Product identifier

Trade name **OPN-Ceramic Paste Spray**

Other means of identification

Article number 61520

Tariff No. 34039900

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

Relevant identified uses industrial use
professional use
Special Lubricant

Sector of use consumer use (private households)

Uses advised against Do not use for products that are intended for contact with food - exclude food contact.

Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H229
3.2	skin corrosion/irritation	Cat. 2	(Skin Irrit. 2)	H315
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 3	(Aquatic Chronic 3)	H412

Remarks

For full text of H-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word

Danger

Pictograms

GHS02, GHS07



Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurized container: may burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

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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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P312	Call a POISON CENTER/doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container to hazardous or special waste.

Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.
Buildup of explosive mixtures possible without sufficient ventilation.

Hazardous ingredients for labelling: hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Other hazards





There is no additional information.

SECTION 3: Composition/information on ingredients

Mixtures

Description of the mixture

Mixture of substances listed below with nonhazardous additions

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
Butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32- xxxx	25 - < 50	Flam. Gas 1 / H220 Press. Gas L / H280	
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	EC No 921-024-6 REACH Reg. No 01-2119475514-35- xxxx	10 - < 25	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
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	

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For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

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. In case of respiratory tract irritation, consult a physician. 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

Not applicable, as aerosol.

Most important symptoms and effects, both acute and delayed

Narcotic effects.

Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

water spray, BC-powder

Unsuitable extinguishing media

water jet

Special hazards arising from the substance or mixture

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

Advice for firefighters

Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Remove undamaged cans from the danger area. If necessary, cool by spraying with water because of bursting. Wear fully protective suit. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

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.

Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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.

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SECTION 7: Handling and storage

Precautions for safe handling

Recommendations

• Measures to prevent fire as well as aerosol and dust generation

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Prevent from heating up above 50 °C.

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.

Conditions for safe storage, including any incompatibilities

Managing of associated risks

Storage class (LGK)

2B.

• Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

Incompatible substances or mixtures

Separate storage required for storage class: 4.1 A, 4.1 B, 4.2, 4.3, 5.1 A, 5.1 B, 5.2, 6.2, 7.

Consideration of other advice

• Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
DE	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		AGW	1.100		2.200		
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

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		DNEL	2.035 mg/m ³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		DNEL	773 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects

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Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

By designated use no eye protection necessary. Do not spray in eyes.

Skin protection

By designated use no hand protection necessary.

• other protection measures

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

Respiratory protection

By designated use no protection necessary. Apply outdoors or well ventilated areas.

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state

aerosol (spray aerosol)

Colour

white

Odour

solvent like

Other physical and chemical parameters

Initial boiling point and boiling range

Not applicable, as aerosol.*

Flash point

Not applicable, as aerosol.*

Evaporation rate

Not determined

Flammability (solid, gas)

Flammable aerosol in accordance with GHS criteria

Explosive limits

• lower explosion limit (LEL)

1,2 vol%

• upper explosion limit (UEL)

15 vol%

Vapour pressure

3,8 bar at 20 °C

6,8 bar at 50 °C

Density

0,8 g/cm³ at 20 °C

Water solubility

insoluble

n-octanol/water (log KOW)

this information is not available

Auto-ignition temperature

>200 °C

Viscosity

not relevant (aerosol)

Explosive properties

none

Oxidising properties

none

Other information

Solvent content

62,1 %

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

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SECTION 10: Stability and reactivity

Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". risk of ignition

Chemical stability

See below "Conditions to avoid".

Possibility of hazardous reactions

No known hazardous reactions.

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

Incompatible materials

There is no additional information.

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

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)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Causes skin irritation.

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.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

• Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

• 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

Toxicity

Harmful to aquatic life.

Water hazard class - WHC (Wassergefährdungsklasse) (WGK; Germany): 2 (explicitly hazardous to waters)

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Butane	106-97-8	LC50	28 mg/l	Fish	96 h
Butane	106-97-8	EC50	7,71 mg/l	Algae	96 h
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		LL50	15,8 mg/l	Fish	72 h
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		EL50	3 mg/l	Aquatic invertebrates	48 h
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		EC50	0,64 mg/l	Aquatic invertebrates	48 h
Propane	74-98-6	LC50	28 mg/l	Fish	96 h
Propane	74-98-6	EC50	7,71 mg/l	Algae	96 h
Isobutane	75-28-5	LC50	28 mg/l	Fish	96 h
Isobutane	75-28-5	EC50	7,71 mg/l	Algae	96 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		EL50	12 mg/l	Aquatic invertebrates	24 h
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		EC50	0,23 mg/l	Aquatic invertebrates	21 d

Biodegradation

The relevant substances of the mixture are readily biodegradable.

Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		Oxygen depletion	83 %	16 d

Bioaccumulative potential

Data are not available.

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Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Butane	106-97-8		1,09 (pH value: 7, 20 °C)	
Propane	74-98-6		1,09 (pH value: 7, 20 °C)	
Isobutane	75-28-5		1,09 (pH value: 7, 20 °C)	

Mobility in soil

Data are not available.

Results of PBT and vPvB assessment

Data are not available.

Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

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

UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2 (gases) (aerosol)
Subsidiary risk(s)	2.1 (flammability)
Packing group	not assigned to a packing group
Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
Special precautions for user	
Provisions for dangerous goods (ADR) should be complied within the premises.	
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
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

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)

None of the ingredients are listed.

• Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol

Extremely flammable

Labelling

Pressurized container: may burst if heated

Keep out of the reach of children

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

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- **Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)**

VOC content 62,1 %
497 g/l

- **Directive on industrial emissions (VOCs, 2010/75/EU)**

VOC content 62,1 %

- **Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

None of the ingredients are listed.

National regulations (Germany)

- **Administrative Regulation on Substances Hazardous to Water (VwVwS)**

Water hazard class - WHC (Wassergefährdungsklasse) 2 (explicitly hazard to waters) - classification acc. to annex 1 (AwSV)

- **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)

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.
Aquatic Chronic.	Hazardous to the aquatic environment - chronic hazard.
Asp. Tox.	Aspiration hazard.
BCF.	Bioconcentration factor.
BOD.	Biochemical Oxygen Demand.
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.
CMR.	Carcinogenic, Mutagenic or toxic for Reproduction.
COD.	Chemical oxygen demand.
DGR.	Dangerous Goods Regulations (see IATA/DGR).
DMEL.	Derived Minimal Effect Level.
DNEL.	Derived No-Effect Level.
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.
Flam. Liq.	Flammable liquid.
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.
LGK.	Lagerklasse (storage class according to TRGS 510, Germany).
Log KOW.	n-Octanol/water.
MARPOL.	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
NLP.	No-Longer Polymer.
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.
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).

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Skin Corr.	Corrosive to skin.
Skin Irrit.	Irritant to skin.
STEL.	Short-term exposure limit.
STOT SE.	Specific target organ toxicity - single exposure.
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.

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

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.
H225.	Highly flammable liquid and vapour.
H229.	Pressurized container: may burst if heated.
H280.	Contains gas under pressure; may explode if heated.
H304.	May be fatal if swallowed and enters airways.
H315.	Causes skin irritation.
H336.	May cause drowsiness or dizziness.
H411.	Toxic to aquatic life with long lasting effects.
H412.	Harmful to aquatic life with long lasting effects.

Disclaimer

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