

Trade name:	SURFACE SHIELD Anticorrosive and Lubricant Spray	Version: 4.0	Actualized at:	2021-08-20
First created at:	2008-12-07	Page 1/10		
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1. Identification of the preparation and of the company / undertaking

1.1 Product identifier

Trade name: SURFACE SHIELD Anticorrosive and Lubricant Spray

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

Identified uses: Anticorrosive and lubricant oil

Uses advised against: unknown

1.3 Details of the supplier on the safety data sheet

Supplier/further information from: J.A.Boddenberg Import & merchandize of chemical-technical articles
Am Obernhof 10, D-40764 Langenfeld
Phone: +49 (0) 212 38 34 333
Fax: +49 (0) 212 38 34 335
email: J.A.Boddenberg@t-online.de
Internet: <http://www.boddenberg.com>

1.4 Emergency call

Emergency information See section 1.3

Mon to Fri: 8 a.m. to 6 p.m. Phone: +49 (0) 212 38 34 333

2. Hazards identification

2.1 Classification of the substance or mixture

Flam. Aerosol 1; H222 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411

2.2 Label elements

Ingredients on label: Solvent naphtha (petroleum), medium aliphatic



GHS02 Flame

GHS07 Exclamation mark

GHS09 Environment

Signal word: Danger

H-Statements: H222 Extremely flammable aerosol.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

P-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/sparks/open flames/hot surfaces. - No smoking.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P501 Dispose of contents/container to disposal as hazardous waste.

Special labeling: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50° C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Classification acc. to Directive 75/324/EEC: extremely flammable

Remarks: According to Annex I Paragraph 1.3.3 in association with Article 23 letter c of the Regulation (EC) No. 1272/2008 (CLP) substances or mixtures in aerosol containers or in containers fitted with a sealed spray attachment classified as aspiration hazard need not be labelled for this hazard, i. e. the pictogram GHS08 and the H statement H304 might be omitted.

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2.3 Other hazards

2.3.1 Potential adverse physicochemical effects:

Release of extremely flammable vapours and with air formation of explosive vapour-air-mixtures.

2.3.2 Potential adverse effects on humans and possible symptoms:

Narcotic effects and suffocation hazard because of oxygen displacement.

2.3.3 Potential adverse effects on the environment:

Release of larger amounts may cause hazardous effects on surface waters.

2.3.4 Other potential hazards:

Bursting danger by heating above 50 °C.

3. Composition / Information on ingredients

3.1 Substances: not relevant

3.2 Mixtures

3.2.1 Chemical Characterisation:

Pressure gas aerosol packaging with preparation of special mild mineral oil special ingredients, low amounts of odorizing substances and fluid gas propane/butane.

3.2.2 Ingredients:

Chemical identification	REACH Reference No.	EC No. Index No.	CAS No.	Content %	GHS classification
Solvent naphtha (petroleum), medium aliphatic*	01-2119537181-47	265-191-7 649-405-00-X	64742-88-7	50-100	Flam.Liq.3;H226 STOT.SE.3;H336 Asp.Tox.1;H304 Aqu.Chron.2;H411
Propane	01-2119486944-21	200-827-9 601-003-00-5	74-98-6	15-25	Flam.Gas.1;H220 Press.Gas,liquif.;H280
Butane	01-2119474691-32	203-448-7 601-004-00-0	106-97-8	15-25	Flam.Gas.1;H220 Press.Gas,liquif.;H280

* Synonymes: 150/200 Solvent, CARCAL 2, Stoddard's Solvent, White Spirit

For wordings of the H-statements see section 16.

4. First aid measures

4.1 Description of first aid measures

4.1.1 General information:



Remove contaminated clothes immediately. At danger of unconsciousness place victim stable in side position for transportation. Provide self-protection. By complaints and symptoms take care of medical treatment.

4.1.2 After inhalation:

Under self-protection remove victim from danger area to fresh air, lay victim down calmly. As soon as possible administer glucocorticoide aerosol for dosing. Take care of medical treatment.

4.1.3 After skin contact:

Thoroughly rinse affected skin sections with much water and soap. Don't use alcohol, fuel or other solvents. Under self-protection remove contaminated clothes. Care for medical treatment.

4.1.4 After skin contact:

Thoroughly rinse affected eye for 15 minutes at spread lids under running water, protect unaffected eye, remove contact lenses. Take care for ophthalmologic treatment.

4.1.5 After swallowing:

Immediately with retained consciousness let victim drink much water. Don't provoke vomiting. At spontaneous vomiting get victim's head into deep position or at least to stable side position to avoid aspiration. Care for medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

After contacts and resorption irritation of eyes, skin and mucosa of the respiration and digestion tract, nausea and vomiting, central nervous disorder with rushes, nonconsciousness, dyspnoea and anaesthesia. After aspiration risk of toxic pulmonary edema and chemical pneumonia.

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4.3 Indication of any immediate medical attention and special treatment needed

No antidote known, decontamination and symptomatic treatment needful. After eyes contact medical treatment by ophthalmologist. After inhalation intensive prophylaxis of potential pulmonary oedema by medication with dexamethasone aerosol spray. After ingestion avoid vomiting because of aspiration risk, administer liquid paraffin and saline laxative.

5. Fire-fighting measures:

5.1 Extinguishing agents:

5.1.1 Suitable extinguishing agents:



Bursting danger. Fight greater burnings with lots of alcohol resistant foam, small burnings with extinguishing powder, foam or carbon dioxide.

5.1.2 For safety reasons unsuitable extinguishing agents:



Water jet.

5.2 Special hazards arising from the substance or mixture



On heating or burning release of extremely flammable and explosive gases – propane and butane – and formation of toxic gases - carbon monoxide, carbon dioxide, organic decomposition products – and aerosols possible.



5.3 Advice for fire fighters



Use pressure air respirator and heat protection suit on decontamination works. On extreme conditions a chemical protection suit might be necessary.

Cool down aerosol cans and containers with water spray and remove those from hazard zone. Pressure rise and burst danger on heating. Get containers out of the hazard. Stay on the lee side of the wind.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear breathing, eyes, hand and body protection. Keep away unprotected persons. Avoid release of vapours and aerosols. Wear breathing protection on exposition to vapours and aerosols.

6.2 Environmental precautions

Retain contaminated water from firefighting. By infiltration to the soil, waters or sewerage contact the responsible authorities.

6.3 Methods and materials for containment and clean-up

Soak up spilled liquids with universal binding material, e.g. kieselguhr, vermiculit or sand, and bring it to legal disposal. Thereafter ventilate the room and clean up contaminated objects and floors. Dispose of contaminated material as hazardous waste.

6.4 References to other sections

For personal protections refer to section 8, for waste disposal refer to section 13.

7. Handling and storage

7.1 Precautions for safe Handling

7.1.1 Information for safe handling:



Strictly mind the warning directions on the can label. Greater amounts of aerosols may form explosive gas-air-mixture because the preparation contains flammable and combustible ingredients. Avoid inhalation of vapours, contacts with eyes, skin and cloths, and longer or repeated expositions. Keep away persons not concerned with occupations.

7.1.2 Technical protection measures:



Good ventilation of working rooms, chemical-resistant floors and washing facilities at the workplace, emergency showers on activities with larger amounts.

7.1.3 Rules of handling:

At workplaces only keep available amounts necessary for work progress.

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7.1.4 Information about fire and explosion protection:



Aerosol is extremely flammable. Bursting danger on overheating. Fire extinguishing facilities are to be hold available. Keep away from ignition sources, e. g. open flames, heat sources and sparks. Mind the smoking ban! Don't work out fire and heat operations without written permission, e. g. a fire permit. Keep away from oxidizing agents.

7.1.5 Further information:
None.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Technical measure and storage conditions:

No restriction on storage temperatures. Store dry.

7.2.2 Packing materials:

No special requirements.

7.2.3 Requirements to be met by storerooms and receptacles:

Storage in gateways, passages, stairways, hallways open to public, roofs, attics and workrooms is not admissible. Don't use foods receptacles because of danger of confusion. Clearly and durably label receptacles. Preferably store the product in original receptacles, keep densely closed.

7.2.4 Information on cumulative storage:

Nothing but substances of similar properties should be cumulatively stored. Cumulative storage with substances and materials as follows is prohibited:

- medicinal products, food and feedings stuffs including additives.	- organic peroxides and other oxidising substances.
- infective, radioactive and explosive substances.	- inflammable solid substances.
- substances releasing flammable gases on contact with water.	- non-flammable toxic and very toxic substances.
	- flammable substances, e. g. paper, carton, wood, plastic foils.

The substance should not be cumulatively stored with substances where dangerous chemical reactions are possible.

7.3 Specific end use(s): refer to section 1.2

8. Exposure controls / personal protection

8.1 Control parameters

8.1.1 Occupational exposition limit (OEL):

Parameter	EC no.	CAS no.	Type	Long-term exposure limit 8-h-TWA	Short-term exposure limit 15-min ref.period
Hydrocarbons C9-C15 aliphatic	----	----	Workplace limit value Germany	600 mg/m ³	1.200 mg/m ³
Butane	203-448-7	206-97-8		1.000 ppm, 2.400 mg/m ³	4.000 ppm, 9.600 mg/m ³
Propane	200-827-9	74-98-6		1.000 ppm, 1.800 mg/m ³	4.000 ppm, 7.200 mg/m ³

8.1.2 Measurement method:

BGIA Methods No. 7732 – determination of hydrocarbons, aliphatic.

8.1.3 Biological limit values: not available

8.1.4 DNEL and PNEC values for solvent naphtha (petroleum), medium aliphatic: not available

8.1.6 DNEL and PNEC values for butane: not available

8.1.6 DNEL and PNEC values for propane: not available

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

8.2 Limitation and control of the exposure

8.2.1 Limitation of the occupational exposition:

8.2.1.1 Technical measures to avoid exposition:

Provide good ventilation of the workroom, exhaust gases and vapours at formation. Vapour-air-mixtures are heavier than air, ventilation also to be provided at the floor.

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8.2.1.2 Personal protection:



Respiratory protection:

Respiratory protective devices required in exception cases on unintended release of substances. Remind wear time limits. Use gas filter type B – colour code: grey. On concentrations above limitations of filter devices or oxygen contents above 17 % or ambiguous conditions use self-contained respiratory device.



Body protection:

Depending on hazard wear dense and sufficient-long apron and boots or suitable hazmat suit. Use flame-retardant, acid and solvent resistant protective clothing.



Eyes protection:

Wear sufficient eyes protective devices. If possible use sideward closed goggles to EN 166. On potential eyes contacts with liquid cage goggles are required.



Hand protection:

On use of protection gloves resistance against the applied substances is needful. Before use proof on liquid tightness. Pre-clean gloves before remove, store well ventilated. Mind skin care-giving. Textile or leather gloves are completely unsuitable. On use of natural rubber or latex gloves use un-powdered and allergen-free products. Gloves made of the following materials are suitable:

Full contact:	Glove matter:	Nitrile or fluorine rubber	Thickness	0,4 mm	Penetration time:	> 480 min.
Splash contact:	Glove matter:	Nitrile rubber	Thickness	0,3 mm	Penetration time:	> 120 Min.

Protection gloves to be applied have to comply with EG Directive 89/686/EEC and EN 374, e.g.:

Full contact:	Camapren 722	Splatter contact:	Butoject 897
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Skin protection:

Skin protection products not as effective as protection gloves, suitable protection gloves preferred if possible. If protection gloves not worn apply water insoluble skin protection substances to clean skin before start of work and after each break and thoroughly embrocate. Before breaks and at the end of work skin cleaning with water and soap necessary. After cleaning fatty skin care products to be applied.



Occupational hygiene:

Keep away from food, beverage and feeding stuff. Take off contaminated soaked clothing immediately. Before breaks and after end of work clean the hands. Avoid contact with eyes and skin.

8.2.2 Limitation of exposition to private end users:

No special risk management measures needful.

8.2.3 Limitation of exposition to environment:

No special risk management measures needful.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance:

State of matter: liquid
Colour: dark / amber
Odour: like mineral oil / vanilla

9.1.2 Fundamental data relevant for security:

Parameter	Value	Unit	Method	Remarks
pH value at 25 °C	n.a.	----	----	----
Melting range	-48 to -26	°C	----	IUCLID data on naphtha
Boiling point	140-220	°C	----	IUCLID data on naphtha
Flash point	n.d.	°C	----	see remarks
Decomposition temperature	n.d.	°C	----	----
Ignition temperature	appr. 200	°C	----	see remarks----
Decomposition temperature	n.d.	°C	----	----
Vapor pressure 50°C	appr. 9	bar	----	2/3 rd proof pressure (12 bar)
Density 20°C	0,907	g/cm ³	----	packed density
Water solubility at 20 °C	----	g/l	----	unsoluble
Viscosity dynamic	n.d.	m ² /s	----	see remarks

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Distribution coefficient log K _{OW}	3,3-6	---	----	IUCLID data on naphtha
Distribution coefficient log K _{OW}	2,3	---	----	IUCLID data on propane
Distribution coefficient log K _{OW}	2,8	---	----	IUCLID data on butane
Explosion limits:	lower:	0,9	vol. %	----
	upper:	7,0	vol. %	----

n.a. not applicable

n.d. not determined

Remarks: The finished preparation is formed not before addition of the pressure gas. Data of viscosity, flash point, ignition temperature and explosion limits are not measurable inside the hermetically closed pressurized container.

9.2 Other information

No further information on security relevant parameters necessary.

10. Stability and reactivity

10.1 Reactivity

Not reactive under the intended use and storage conditions.

10.2 Chemical stability

Chemically stable under the intended use and storage conditions.

10.3 Possibility of hazardous reactions

Impact of strong oxidizing agents, formation of explosive mixtures with air.

10.4 Conditions to avoid

None by use as intended and appropriate application.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide and dioxide.

11. Toxicological information

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

11.1 Toxicocinetics, metabolism and distribution:

Solvent naphtha: Main intake path of the solvent naphtha by inhalation, dermal intake probably to a minor extent, gastrointestinal also detectable. Metabolism by hydroxylation and oxidation, excretion by kidneys, partly enriched in adipose tissue, metabolized and exhaled via lungs. Elimination half live 120 hours on mixtures („White Spirit“) detectable.

Pressure gases propane / butane: Main intake path by breathing, only small amount reabsorpted, mainly exhaled unchanged.

11.1.2 Acute toxicity:

Parameter	Value	Species	Method	Remarks
Solvent naphtha:				
LD ₅₀ oral	>5.000 mg/kg	rat	EU B.1	----
LD ₀ dermal	>3.000 mg/kg	rabbit	EU B.3	Maximale dose
LC ₀ inhalative	>13 mg/l/4 h	rat	EU B.2	saturation conc.
Pressure gases propane / butane:				
LC ₅₀ inhalative	>658 mg/l/4 h	rat	EU B.2	----

11.1.3 Corrosive and irritative effects:

Intake path	Result	Species	Method	Remarks
Solvent naphtha:				
Skin	slightly irritant	rabbit	EU B.4	----
Eyes	not irritant	rabbit	Draize test	----
Pressure gases propane / butane:				
Eyes	not irritant	rabbit	----	----
Respiration tract	not determined	----	----	----

11.1.4 Sensitisation:

Buehler Test Guinea Pig	Not sensitizing.
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11.1.5 Subacute to chronic toxicity:

No toxic effects on inhalation of 90 days at rats with 1017 and 4489 ppm propane/butane.

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11.1.6 Cancerogenicity, mutagenicity and reproduction toxicity:

Solvent naphtha:	
Ames test salmonella typhimur.	negative
12-month-test in mouse	not carcinogenic
Inhalation 3 rd to 20 th day in rat	not teratogenic

Pressure gases propane / butane:	
Ames test salmonella typhimur.	negative
Inhalation in rodents	no evidence on carcinogenic effects of propane and pure butane, only by 1,3-butadiene content of butane carcinogenic effects occur.

11.2 Information on other hazards

11.2.1 Experience from practice:

Solvent naphtha:	
After inhalation:	irritation effects on air ways, headaches, vertigo, nausea, flush, dyspnoea and faint on high intake.
After skin contact:	irritating and degreasing effects.
After eyes contact:	strong irritating effects on mucosa.
After swallowing:	irritating effects on digestive tract.

Pressure gases propane /butane:	
After inhalation:	slightly irritant effects on air ways, on high dose intake narcotic effects, on high conc. suffocation danger by oxygen replacement.
After skin contact:	slightly irritant effects.
After eyes contact:	slightly irritant effects.
After swallowing:	slightly irritant effects on digestive tract.

11.2.2 General remarks: none

12. Ecological information

12.1 Toxicity

Solvent naphtha:			
Fish toxicity	LC ₅₀	<i>Salmo gairdneri</i>	800 mg/l/96 h
Crustacean toxicity	EC ₅₀	<i>Daphnia magna</i>	>100 mg/l/48 h
Algae toxicity	IC ₅₀	<i>Selenastrum capricornutum</i>	450 mg/l/96 h

Pressure gases butane / propane:			
Fish toxicity propane	LC ₅₀	<i>species unknown</i>	calculated: 13,0 mg/l/96 h
Fish toxicity butane	LC ₅₀	<i>species unknown</i>	calculated: 6,0 mg/l/96 h
Crustacean toxicity	EC ₅₀	----	not determined
Algae toxicity	IC ₅₀	----	not determined

12.2 Persistence and degradability

Solvent naphtha:	
Biotic degradation:	Biologic degradable, approx. 55 to 63 aerobic to 28 days.
Abiotic degradation:	Barely degradable in water, rapid degradation in air on sunlight with calculated half-lives of 0.3 to 0.7 days.

Pressure gases propane / butane:	
Biotic degradation:	Propane uncompletely biotic degradable, approx. 66% within 35 days
Abiotic degradation:	Photolytic degradation in air with sunlight, propane half live time approx. 13 days at 22 °C.

12.3 Bioaccumulation potential

At calculated distribution coefficient log K_{ow} 3,3 to 6 enrichments in adipose tissue of organisms expected. Not determined for propane/butane, to be expected insignificant.

12.4 Mobility in soil

Solvent naphtha:	
Distribution In environmental compartments:	Volatile amounts, e. g. decane, > 99% in air, less volatile amounts, e. g. tetradecane, > 75% in air, > 20% bound to soil.

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Pressure gases butane / propane:

Distribution in environmental compartments:	No data available.
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12.6 Endocrine disrupting properties

Endocrine disrupting properties are not known.

12.7 Other adverse effects

Ozone degradation potential not known. Propane (R290: GWP=3) and butane (R600a: GWP=4) are greenhouse gases (carbon dioxide/R744: GWP=1).

13. Disposal considerations:

13.1 Waste treatment methods

13.1.1 Disposal of residues and wastes of the product:

To be recycled by redemption systems or disposed by authorised waste management enterprises.

European waste inventory	14 05 03*	Other solvents and solvent mixtures.
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13.1.2 Disposal of contaminated packaging:

Filled and not completely emptied pressurized dispensers are dangerous waste and are to be recycled or disposed by authorised waste management enterprises.





European waste inventory	15 01 10*	Packaging containing residues of or contaminated by dangerous substances.
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13.1.3 Disposal of completely emptied packaging:

Completely emptied plastic packaging are to be brought to a substantial utilisation.

European waste inventory	15 01 02	Plastic packaging.
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14. Transport information

	ADR / RID	ADN / ADNR	IMDG-Code	IATA-DGR
14.1 UN number	1950	1950	1950	1950
14.2 UN proper shipping name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
14.3 Transport hazard class(es)	 2 (5F)	 2 (5F)	 2 (5F)	 2 (5F)
14.4 Packing group	not relevant	not relevant	not relevant	not relevant
14.5 Environmental hazards	not relevant	not relevant	not relevant	not relevant
Further information:	Warning sign: 23/1950	Warntafel: 23/1950	EMS: F-D, S-U	
Limited quantities:	LQ2 (until 333 litres)			
Packing instructions:	P003 LP02			
Cumulative packing:	PP17 PP87 RR6 L2			

14.6 Special precautions for users

The cumulative storage prohibitions of section 7.2 shall be considered.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

Remarks:

Transport provisions according to international regulations, aberrations of single countries not considered.

15. Regulatory informations

15.1 EC Guidelines:

15.1.1 EC Guidelines:

15.1.1.1 Classification and labelling acc. to Regulation (EC) No. 1272/2008 (CLP):

Liable to classification and labelling, refer to section 2.

15.1.1.2 Information on Directive 1999/13/EC (VOC Directive) for limitation of VOC emissions: 100% VOC

15.1.1.3 Authorisations and / or use restrictions: none.

15.1.1.4 Further EC provisions: none.

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15.1.2 National provisions:

15.1.2.1 Classification and labelling:

The product is liable to classification and labelling according to EC legislation, refer to section 2.

15.1.2.2 Further national provisions, restrictions and prohibitions:

The above regulatory information represents only selected regulations. Further national provisions, restrictions and prohibitions may be in force and are to be regarded well.

15.2 Chemical safety assessment

Chemical safety assessments (CSA) according to art. 14 par. 1 of EC Regulation (EC) No. 1907/2006 (REACH) for solvent naphtha (petroleum), medium aliphatic, propane and butane are not available.

16. Other information

16.1. Wordings of the H-Statements from chapter 2 and 3:

H220 Extremely flammable gas.
 H222 Extremely flammable aerosol.
 H226 Flammable liquid and vapor.
 H280 Contains gas under pressure; may explode if heated.
 H304 May be fatal if swallowed and enters airways.
 H336 May cause drowsiness or dizziness
 H411 Toxic to aquatic life with long lasting effects.
 EUH066 Repeated exposure may cause skin dryness or cracking.

16.2 Instruction references: none

16.3 Recommended restriction(s) of use: none

16.4 Further information and points of contact for technical information:

Point of contact: J.A.Boddenberg Import & merchandize of chemical-technical articles
 Am Obernhof 10, D-40764 Langenfeld
 Phone: +49 (0) 212 38 34 333
 Fax: +49 (0) 212 38 34 335
 email: J.A.Boddenberg@t-online.de
 Internet: <http://www.boddenberg.com>

16.5 Data sources for creation of material safety data sheets;

European Chemical Agency (ECHA), Information on registered chemical substances, Internet:
<http://echa.europa.eu/de/information-on-chemicals/registered-substances>
 Hazardous substances information system of the German Federation of Institutions for Statutory Accident Insurance and Prevention (GESTIS)
 Internet: <http://www.hvbg.de/d/bia/gestis/stoffdb/index.html>.
 Hazardous Substances Data Bank (HSDB) – U.S. National Library of Medicine (NLM)
 Internet: <http://toxnet.nlm.nih.gov>
 Hommel interaktive 4.0 – Handbook of dangerous goods
 Internet: <http://www.springer.com/dal/home/chemistry>.
 CRC Handbook of Chemistry and Physics, 88th Edition, 2007-2008
 Internet: <http://www.hbcernetbase.com>.

16.6 Amended information and reasons for amendments:

Prior version:	Version no.:	3.2	Date	2019-09-03
Actual version:	Version no.:	4.0	Date	2021-08-20
Type of amendment:	Update.			
Reason of amendment:	Proof on actuality, and editorial amendments in all sections; adoption to requirements of the Regulation (EU) 2020/878 amending Annex II of the regulation (EC) No. 1907/2006 (REACH), and of the technical progress (ATP) of the Regulation (EU) 2020/217 (14 th ATP) amending the Regulation (EC) No. 1272/2008 (CLP).			

16.7 Remarks:

This information exclusively describes the security requests on the product and base on the status of our knowledge. This don't present any guarantee on properties of the product in the sense of legal warrantee regulations. Please learn more about the deliver properties from the product data sheets.
 If the product named in this safety data sheet is blended or processed with other materials the information of this safety data sheet can't be transferred to the produced new material until otherwise stated.



aterial Safety Data Sheet

acc.to regulat. (EC) No.1907/2006 (REACH) article 31 / annex II

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