



Wire Brush Safety Data Sheet Contents:

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MATERIAL SAFETY DATA SHEET

WIRE BRUSHES

1 Identification of the substance/preparation and of the company/undertaking	
COMPANY NAME:	Rosver SRL
STREET ADDRESS, CITY, STATE, AND ZIP:	Via Concordia 5/C6 – 20099 Sesto San Giovanni (MI)
TELEPHONE NUMBER:	T.+39 0224417219 – F.+39 022403942
TRADE NAME, COMMON NAME, OR SPECIFICATION:	Stainless Steel Wire Brushes
APPLICATION OF THE SUBSTANCE:	Used in cleaning rust

2 Composition/information on ingredients						
Type 304 Stainless Steel Wire Brushes						
Hazardous Components, (Specific Chemical Identity, Common Name(s))	CAS Number	OSHA PEL	ACGIH TLV	NTP Listed	IARC Listed	WT %
Iron	7439-89-6	-	-	No	No	48-89
Chromium	7440-47-3	1,00	0,50	Yes	Yes	10-27
Nickel	7440-02-0	1,00	1,00	No	Yes	0-20
Manganese	7439-96-5	C5 (6)	C5	No	No	0-15
Tungsten	7440-33-7	None	5,00	No	No	0-4
Molybdenum	7439-98-7	15,00	10,00	No	No	0-4
Aluminum	7429-90-5	None	10,00	No	No	0-2
Copper	7440-50-8	1,00	1,00	No	No	0-4
Silicon	7440-21-3	None	10,00	No	No	0-5
Cobalt	7440-48-7	0,10	0,05	No	No	0-5

3. Hazards identification
<p>Potential Health Effects:</p> <p>Eye: Dust may cause eye irritation. Dust particles or filings may cause abrasive injury to the eyes.</p> <p>Skin: None expected under normal use conditions.</p> <p>Ingestion: None expected under normal use conditions. Swallowing large pieces may cause obstruction of the gastrointestinal tract.</p> <p>Inhalation: Dust may cause respiratory irritation.</p>

4 First aid measures
<p>Persons using these products should consult a physician or other medical professional if an accident involving these products in injury. Specific first-aid measures are as follows:</p> <p>Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.</p> <p>Skin Contact: Wash dust from skin with soap and water. Launder contaminated clothing before reuse.</p> <p>Inhalation: If over exposed to dust, remove victim to fresh air and get medical attention.</p> <p>Ingestion: If dust is swallowed, seek medical attention.</p>

5 Fire-fighting measures
<p>Extinguishing Media: Use any media that is appropriate for the surrounding fire.</p> <p>Special Fire Fighting Procedures: Firefighters should not enter confined spaces without wearing NIOSH/MSHA approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.</p> <p>Unusual Fire and Explosion Hazards: This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when brushed, machined or ground.</p> <p>Explosion Sensitivity to Mechanical Impact: Not available.</p> <p>Explosion Sensitivity to Static Discharge: Not available.</p>

6 Accidental release measures
<p>Release Response: Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Notify authorities as required by local, state and federal regulations.</p> <p>Measures for environmental protection: Avoid disposing into drainage/sewer system or directly into the aquatic environment.</p>

7 Handling and storage
<p>Handling: Information for safe handling: Dusts or powders may form explosive mixtures with air. Avoid breathing dusts or fumes. Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Information about fire and explosion protection: Do not handle, store or open near an open flame, sources of heat or sources of ignition.</p> <p>Storage: Requirements to be met by storerooms and receptacles: Store in a cool, dry, well-ventilated area away from oxidizing agents. Information about storage in one common storage facility: Keep container tightly sealed. Further information about storage condition: Store in cool, dry conditions in well sealed containers.</p>

8 Exposure controls/personal protection
<p>Engineering Controls: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Personal Protective Equipment: Protection of Hands: Appropriate protective gloves should be worn as necessary. Protection of Eyes: Use safety glasses. Face shield should be used when welding or cutting. Protection of Respiratory Tract: Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice. Protection of Body: Good personal hygiene practices should be followed including cleansing exposed skin several times daily with soap and water, and laundering or dry cleaning soiled work clothing. General protective and hygienic measures: Not available. Material of Gloves: Cloth or leather gloves recommended.</p>

9. Physical and chemical properties	
General Information	
Form:	Steel wire brush
Color:	Gray
Odor:	Odorless
Change in condition	
Melting point/Melting range:	1000-2000°C
Boiling point/Boiling range:	Not available
Flash point:	Not available
Self-igniting:	Not available
Danger of explosion:	Not available
Vapor pressure:	Not available
Partition coefficient (n-octanol / water):	Not available
Density:	
Relative density:	7.8 g/m ³
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in/Miscibility with Water:	Insoluble
PH-Value:	Not available
Viscosity:	Not available
Dynamic:	Not available

10 Stability and reactivity
<p>Chemical Stability: Stable at room temperature under normal storage and handling conditions. Dangerous Decomposition Products: Dust from grinding or brushing could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being ground or brushed or coatings applied to the base material. Hazardous Polymerizations: Will not occur. Conditions to Avoid: Steel at temperatures above the melting point may liberate fumes containing oxides of iron and alloying elements. Avoid generation of airborne fume.</p>

11 Toxicological information

Potential Health Effects:

Acute Effect: Steel products in their solid state under normal conditions, do not present an inhalation, ingestion or skin hazard. However, operations resulting in fume or particulate formation such as welding, sawing, brazing, grinding and machining may present health hazards. Molten steel also is hazardous.

Chronic Effects: Long-term overexposure to dust may cause lung damage (fibrosis) with symptoms of coughing, shortness of breath and diminished breathing capacity. Skin and/or respiratory sensitization may also occur.

Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground or brushed.

LD50: Iron: LD50 (Oral, rat)=3000 mg/kg

12 Ecological information**Ecotoxicological effects:**

Effect of material on plants or animals: Not expected to be harmful to terrestrial organisms.

Effect of material on plants or aquatic life: Not expected to be harmful to aquatic organisms.

Ecological data: Not available

13 Disposal considerations

Waste Disposal Methods: Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Recommendation Disposal must be made according to official regulations.

14 Transport information

These products are not hazardous as defined by EU related Regulation and Directive.

Proper shipping name: Not available

Hazard class number and description: Not available

Packing Group: Not available

UN Identification: Not available

Marine Pollutant: Not available.

Attentions: Not available.

15 Regulatory information

Labeling according to the GHS(Globally Harmonized System of Classification and Labelling of Chemicals):

GHS label symbols: Not applicable.

Hazard Statement: Not applicable.

Precautionary Statement Prevention: Not applicable.

Precautionary Statement Response: Not applicable.

Precautionary Statement Storage: Not applicable.

Precautionary Statement Disposal: Not applicable.

Other National Regulations:

SARA: Not available.

ICAO/IATA: Not available.

TSCA: Not available.

DOT: Not available.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

MATERIAL SAFETY DATA SHEET

WIRE BRUSHES

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COMPANY NAME:	Rosver SRL
STREET ADDRESS, CITY, STATE, AND ZIP:	Via Concordia 5/C6 – 20099 Sesto San Giovanni (MI)
TELEPHONE NUMBER:	T.+39 0224417219 – F.+39 022403942
TRADE NAME, COMMON NAME, OR SPECIFICATION:	Steel Wire Brushes
APPLICATION OF THE SUBSTANCE:	Used in cleaning rust

2 Composition/information on ingredients					
Chemical characterization					
Description: The component of this product is in the form of element listed below with additions.					
Components Number	CAS Number	Approximate(%)by Wt.Or Vol.	GHS Classification	Workplace Exposure Limit	
				Long-term (8-hour)ppm mg.m-3	Short-term (15-minute) ppm mg.m-3
Fe	7439-89-6	98.146%	-	Not available	Not available
C	7440-44-0	0.63%	-	Not available	Not available
Mn	7439-96-5	0.98%	-	Not available	Not available
P	7723-14-0	0.009%	-	Not available	Not available
S	7704-34-9	0.005%	-	Not available	Not available
Si	7440-21-3	0.23%	-	Not available	Not available

3. Hazards identification
<p>Potential Health Effects:</p> <p>Eye: Dust may cause eye irritation. Dust particles or filings may cause abrasive injury to the eyes.</p> <p>Skin: None expected under normal use conditions.</p> <p>Ingestion: None expected under normal use conditions. Swallowing large pieces may cause obstruction of the gastrointestinal tract.</p> <p>Inhalation: Dust may cause respiratory irritation.</p>

4 First aid measures
<p>Persons using these products should consult a physician or other medical professional if an accident involving these products in injury. Specific first-aid measures are as follows:</p> <p>Eye Contact: Flush eyes thoroughly with water, holding open eyelids. Get medical attention if irritation persists. Obtain immediate medical attention for foreign body in the eye.</p> <p>Skin Contact: Wash dust from skin with soap and water. Launder contaminated clothing before reuse.</p> <p>Inhalation: If over exposed to dust, remove victim to fresh air and get medical attention.</p> <p>Ingestion: If dust is swallowed, seek medical attention.</p>

5 Fire-fighting measures
<p>Extinguishing Media: Use any media that is appropriate for the surrounding fire.</p> <p>Special Fire Fighting Procedures: Firefighters should not enter confined spaces without wearing NIOSH/MSHA approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.</p> <p>Unusual Fire and Explosion Hazards: This product is not combustible, however, consideration must be given to the potential fire/explosion hazards from the base material being processed. Many materials create flammable/explosive dusts or turnings when brushed, machined or ground.</p> <p>Explosion Sensitivity to Mechanical Impact: Not available.</p> <p>Explosion Sensitivity to Static Discharge: Not available.</p>

6 Accidental release measures
<p>Release Response: Pick up, sweep up or vacuum and place in a container for disposal. Minimize generation of dust. Notify authorities as required by local, state and federal regulations.</p> <p>Measures for environmental protection: Avoid disposing into drainage/sewer system or directly into the aquatic environment.</p>

7 Handling and storage	
Handling:	
Information for safe handling: Dusts or powders may form explosive mixtures with air. Avoid breathing dusts or fumes. Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.	
Information about fire and explosion protection: Do not handle, store or open near an open flame, sources of heat or sources of ignition.	
Storage:	
Requirements to be met by storerooms and receptacles: Store in a cool, dry, well-ventilated area away from oxidizing agents.	
Information about storage in one common storage facility: Keep container tightly sealed.	
Further information about storage condition: Store in cool, dry conditions in well sealed containers.	

8 Exposure controls/personal protection	
Engineering Controls: Use local exhaust or general ventilation as required to minimize exposure to dust and maintain the concentration of contaminants below the TLVs. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.	
Personal Protective Equipment:	
Protection of Hands: Appropriate protective gloves should be worn as necessary.	
Protection of Eyes: Use safety glasses. Face shield should be used when welding or cutting.	
Protection of Respiratory Tract: Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use respirators in accordance with OSHA 1910.134 and good industrial hygiene practice.	
Protection of Body: Good personal hygiene practices should be followed including cleansing exposed skin several times daily with soap and water, and laundering or dry cleaning soiled work clothing.	
General protective and hygienic measures: Not available.	
Material of Gloves: Cloth or leather gloves recommended.	

9. Physical and chemical properties	
.General Information	
Form:	Steel wire brush
Color:	Gray
Odor:	Odorless
Change in condition	
Melting point/Melting range:	1000-2000°C
Boiling point/Boiling range:	Not available
Flash point:	Not available
Self-igniting:	Not available
Danger of explosion:	Not available
Vapor pressure:	Not available
Partition coefficient (n-octanol / water):	Not available
Density:	
Relative density:	7.8 g/m ³
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in/Miscibility with Water:	Insoluble
PH-Value:	Not available
Viscosity:	Not available
Dynamic:	Not available

10 Stability and reactivity	
Chemical Stability: Stable at room temperature under normal storage and handling conditions.	
Dangerous Decomposition Products: Dust from grinding or brushing could contain ingredients listed in Section 3 and other, potentially more hazardous components of the base material being ground or brushed or coatings applied to the base material.	
Hazardous Polymerizations: Will not occur.	
Conditions to Avoid: Steel at temperatures above the melting point may liberate fumes containing oxides of iron and alloying elements. Avoid generation of airborne fume.	

11 Toxicological information

Potential Health Effects:

Acute Effect: Steel products in their solid state under normal conditions, do not present an inhalation, ingestion or skin hazard. However, operations resulting in fume or particulate formation such as welding, sawing, brazing, grinding and machining may present health hazards. Molten steel also is hazardous.

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Prolonged exposure to elevated noise levels during operations may affect hearing. A greater hazard, in most cases, is the exposure to the dust/fumes from the material or paint/coatings being ground or brushed.

LD50: Iron: LD50 (Oral, rat)=3000 mg/kg

12 Ecological information

Ecotoxic effects:

Effect of material on plants or animals: Not expected to be harmful to terrestrial organisms.

Effect of material on plants or aquatic life: Not expected to be harmful to aquatic organisms.

Ecological data: Not available

13 Disposal considerations

Waste Disposal Methods: Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Recommendation Disposal must be made according to official regulations.

14 Transport information

These products are not hazardous as defined by EU related Regulation and Directive.

Proper shipping name: Not available

Hazard class number and description: Not available

Packing Group: Not available

UN Identification: Not available

Marine Pollutant: Not available.

Attentions: Not available.

15 Regulatory information

Labeling according to the GHS(Globally Harmonized System of Classification and Labelling of Chemicals):

GHS label symbols: Not applicable.

Hazard Statement: Not applicable.

Precautionary Statement Prevention: Not applicable.

Precautionary Statement Response: Not applicable.

Precautionary Statement Storage: Not applicable.

Precautionary Statement Disposal: Not applicable.

Other National Regulations:

SARA: Not available.

ICAO/IATA: Not available.

TSCA: Not available.

DOT: Not available.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Safety Data Sheet

According to Regulation (EC) No 1907/2006

ABRASIVE BRUSH/NYLON BRUSH

Version 1.0

Issue date: 07/07/2015

Revision date: 07/07/2015

SDS Record Number: C555-TCO-010-117559

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: ABRASIVE BRUSH/NYLON BRUSH

Additional identification: Not available

Identification of the product: See section 3

Index Number: Not available

REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Cleaning polish.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): -

Supplier(Manufacturer): ROSVER SRL

Address: Via Concordia 5/C6
20099 Sesto San Giovanni (MI)

Contact person(E-mail): info@rosver.com

Telephone: +39 0224417219

Fax: +39 022403942

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
N/A	N/A

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms: No hazard pictogram is used.

Signal Word(S): No signal word is used.

Hazard Statement: Not applicable.

Precautionary statement: Not applicable.

Product name: ABRASIVE BRUSH/NYLON BRUSH

Version #: 1.0

Issue date: 07-07-2015.

Revision date: 07-07-2015.

SDS EU

1 / 7

2.3 Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
Steel sheet					
Iron	N/A	7439-89-6	231-096-4	74.44%	Not Classified
Manganese	N/A	7439-96-5	231-105-1	17%	Not Classified
Carbon	N/A	7440-44-0	231-153-3	3%	Not Classified
Aluminium	N/A	7429-90-5	231-072-3	2.7%	Not Classified
phosphorus	N/A	7723-14-0	231-768-7	1.3%	H228 H412
Silicon	N/A	7440-21-3	231-130-8	1%	Not Classified
sulfur	N/A	7704-34-9	7704-34-9	0.56%	H315
Abrasive filaments					
Nylon 612/610/6	N/A	N/A	N/A	70-80%	Not available
SIC/AO/WA	N/A	N/A	N/A	20-30%	Not available

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

In case of dust generation during some work operations and inhalation remove to ventilated area and keep calm. In case of ongoing discomfort consult a physician

4.1.2 In case of skin contact:

Call a POISON CENTER or doctor/physician if you feel unwell.

4.1.3 In case of eyes contact:

If particles comes into contact with eyes treatment for mechanical irritation or injury may be required; in case of ongoing discomfort consult a physician

4.1.4 In case of ingestion:

Not a likely route of exposure. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use fire fighting extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

No specific fire or explosion hazard. In case of fire, the following can be released: carbon monoxide, carbon dioxide.

5.3 Special fire fighting methods and special protective actions for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Provide adequate ventilation. Avoid inhalation of vapour or dust. Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions:

Do not allow material to be released to the environment without proper governmental permits.

6.3 Methods for Containment and Cleaning up:

Take up mechanically.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.5 Additional information:

Not applicable.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Good hygienic practices should be observed. Avoid contact with skin and eyes. Avoid breathing dust. If exposed to high dust concentration, leave area immediately. Work clothes should be washed separately at the end of each work day. Keep away from sources of ignition. Ensure good ventilation/exhaustion at the workplace.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Material should be stored in a clean, dry environment in original packaging and not exposed to ignition sources.

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Substance	Occupational Exposure Limit Value (8-hour reference period)	Occupational Exposure Limit Value (15-minute reference period)

	EINECS No.	CAS No.	ppm	mg/ m ³	ppm	mg/ m ³	Notes
Graphite total inhalable dust respirable dust	231-153-3	7440-44-0	- -	10 4	- -	- -	- -
Aluminium metal; total inhalable dust respirable dust welding fume	231-072-3	7429-90-5	- - -	10 4 5	- - -	- - -	- - -
Silicon Si total inhalable dust respirable dust	231-130-8	7440-21-3	- -	10 4	- -	- -	- -
Manganese and compounds (as Mn)	231-105-1	7439-96-5	-	0.2	-	-	-
Phosphorus, yellow	231-768-7	7723-14-0	-	0.1	-	0.3	-

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: None required under normal conditions of use.

Hand protection: None required under normal conditions of use. Wear gloves if necessary.

Body protection: None required under normal conditions of use.

Respiratory protection: None required under normal conditions of use.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment.
According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Solid
Colour:	Red
Odour:	Slight
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	210-224° C
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available

Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Relative Density:	Not available
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Not available
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	>340° C
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	Not available
Molecular Weight:	Not available

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Specific gravity:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials.
10.5 Incompatible materials:	Strong oxidizing agents.
10.6 Hazardous decomposition products:	Caused by incomplete combustion toxic fumes mainly consisting of CO and CO ₂ may be developed.

Section 11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution:

Non-human toxicological data:	Not available
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11.2 Information on toxicological effects:

Acute toxicity:	
LD50(Oral, Rat):	Not available
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	Not available

Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified

Section 12 Ecological information

Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.
Results of PBT&vPvB assessment:	Not available.
Other adverse effects:	Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods:	The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.
13.2 Product / Packaging disposal:	If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by EU No 453/2010

16.2 Training instructions:

Not applicable.

16.3 Further information:

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

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.