

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023      JEAN-151 SN100CV T3/T4      Product code: 950629      Page 1 of 13

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

JEAN-151 SN100CV T3/T4

**Further trade names**

This MSDS covers the following products:  
Solder paste JEAN-151 SN100CV T3/T4

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Solder paste for soft soldering, lead free

**Uses advised against**

Any non-intended use.

**1.3. Details of the supplier of the safety data sheet**

Company name: BALVER ZINN  
Josef Jost GmbH & Co. KG  
Street: Blintroper Weg 11  
Place: D-58802 Balve  
Telephone: +49 2375 915 - 0      Telefax: +49 2375 915 - 1700  
e-mail: cia@balverzinn.com  
e-mail (Contact person): SDS@balverzinn.com  
Internet: www.balverzinn.com  
Responsible Department: Product Safety Department +49 2375 915-199  
Only available during office hours.

**1.4. Emergency telephone number:** +49 700 24 112 112 or +1 872 588 8271  
(Contract-ID: BZW)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Eye Dam. 1; H318  
Aquatic Acute 1; H400

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

2-(2-hydroxyethoxy)ethanol, 3,6-dioxo-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol  
monoethyl ether, hexyl carbitol

**Signal word:** Danger

**Pictograms:****Hazard statements**

H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.

**Precautionary statements**

P273 Avoid release to the environment.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023	JEAN-151 SN100CV T3/T4 Product code: 950629	Page 2 of 13
---------------------------	--	--------------

**Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P391	Collect spillage.
P501	Dispose of contents/container to local/regional/national/international regulations.

**Special labelling of certain mixtures**

EUH208	Contains N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.
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**2.3. Other hazards**

For information or further instructions, see also section 11 or 12.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
	EC No                                  Index No                                  REACH No	
	Classification (Regulation (EC) No 1272/2008)	
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol	1 - < 5 %
	203-988-3                                  603-175-00-7                                  01-2119945815-28	
	Acute Tox. 4, Eye Dam. 1; H312 H318	
144413-22-9	complex reaction mass of Chinese gum rosin post reacted with acrylic acid	1 - < 5 %
	434-230-1                                  607-682-00-4	
	Aquatic Chronic 4; H413	
7440-50-8	Copper in matrix, powdery	< 1 %
	231-159-6                                  01-2119480154-42	
	Aquatic Acute 1, Aquatic Chronic 3; H400 H412	
123-26-2	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	0,5 - < 1 %
	204-613-6                                  01-2120783565-42	
	Skin Sens. 1, Aquatic Chronic 3; H317 H412	

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
112-59-4	203-988-3	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol	1 - < 5 %
		dermal: LD50 = (2764) mg/kg	
144413-22-9	434-230-1	complex reaction mass of Chinese gum rosin post reacted with acrylic acid	1 - < 5 %
		oral: LD50 = >2000 mg/kg	
7440-50-8	231-159-6	Copper in matrix, powdery	< 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2500 mg/kg Aquatic Acute 1; H400: M=10000	

**Further Information**

Product does not contain listed SVHC substances &gt; 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023	JEAN-151 SN100CV T3/T4 Product code: 950629	Page 3 of 13
---------------------------	--	--------------

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Change contaminated clothing.

**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of breathing difficulties administer oxygen. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. Get medical advice/attention.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician in any case!

**4.2. Most important symptoms and effects, both acute and delayed**

refer to chapter 2 and 11.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Atomized water.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Metal oxide smoke, toxic

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove persons to safety. Ventilate affected area.

Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

Personal protection equipment: see section 8

**For emergency responders**

No special measures are necessary.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

JEAN-151 SN100CV T3/T4

Revision date: 22/05/2023

Product code: 950629

Page 4 of 13

barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up****Other information**

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation.

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace.

Wash hands before breaks and after work. Take off contaminated clothing.

**Further information on handling**

General protection and hygiene measures: See section 8.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Keep/Store only in original container.

**Hints on joint storage**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Radioactive substances.. Infectious substances.

**Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Protect against: UV-radiation/sunlight. heat. Humidity frost.

storage temperature: refer to specifications.

**7.3. Specific end use(s)**

See section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
7440-50-8	Copper, fume	-	0.2		TWA (8 h)	
-	Rosin core solder pyrolysis products (as airborne total resin acid)	-	0.05		TWA (8 h)	
		-	0.15		STEL (15 min)	
7440-31-5	Tin (Metal)	-	2		TWA (8 h)	

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023

JEAN-151 SN100CV T3/T4

Product code: 950629

Page 5 of 13

## DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7440-31-5	tin			
Consumer DNEL, long-term		inhalation	systemic	3,476 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	3,476 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	11,75 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	11,75 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	80 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	133,3 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	80 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	133,3 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	80 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	80 mg/kg bw/day
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monoethyl ether, hexyl carbitol			
Worker DNEL, long-term		inhalation	systemic	16,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4,1 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,25 mg/kg bw/day
65997-06-0	hydrogenated rosin			
Consumer DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	17 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	35 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	117 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	10 mg/kg bw/day
7440-50-8	Copper in matrix, powdery			
Worker DNEL, long-term		dermal	systemic	137 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	273 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	137 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	273 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,041 mg/kg bw/day
123-26-2	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)			
Worker DNEL, long-term		inhalation	local	3,35 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	0,83 mg/m <sup>3</sup>

## PNEC values

CAS No	Substance	Value
	Environmental compartment	
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monoethyl ether, hexyl carbitol	
Freshwater		1,963 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,196 mg/l
Freshwater sediment		10,7 mg/kg
Marine sediment		1,07 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,995 mg/kg

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023

JEAN-151 SN100CV T3/T4

Product code: 950629

Page 6 of 13

**PNEC values**

CAS No	Substance	Value
65997-06-0	hydrogenated rosin	
	Freshwater	0,0016 mg/l
	Marine water	0,00016 mg/l
	Freshwater sediment	0,007 mg/kg
	Marine sediment	0,0007 mg/kg
	Micro-organisms in sewage treatment plants (STP)	1000 mg/l
	Soil	0,00045 mg/kg
7440-50-8	Copper in matrix, powdery	
	Freshwater	0,0078 mg/l
	Marine water	0,0052 mg/l
	Freshwater sediment	87 mg/kg
	Marine sediment	676 mg/kg
	Micro-organisms in sewage treatment plants (STP)	0,23 mg/l
	Soil	65 mg/kg
123-26-2	N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)	
	Secondary poisoning	0,1 mg/l

**8.2. Exposure controls****Appropriate engineering controls**

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses. (EN 166)

**Hand protection**

Wear suitable gloves.

Suitable material: Butyl rubber. Thickness of glove material: 0,5 mm break-through time: > 480 min.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: Insufficient ventilation Exceeding exposure limit values

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A-P2/3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023	JEAN-151 SN100CV T3/T4 Product code: 950629	Page 7 of 13
---------------------------	--	--------------

Do not allow uncontrolled discharge of product into the environment.  
This material and its container must be disposed of in a safe way.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	pasty	
Colour:	metallic grey	
Odour:	characteristic.	
Melting point/freezing point:	211 - 225 °C	<b>Test method</b>
Boiling point or initial boiling point and boiling range:	not determined	
Flammability:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	not determined	
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic (at 20 °C):	not determined	
Water solubility:	insoluble	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure (at 20 °C):	not determined	
Density:	not determined	N/A
Relative vapour density:	not determined	

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

The product is not: Explosive. none

## Oxidizing properties

none.

**Other safety characteristics**

Evaporation rate:	not determined
Solid content:	not determined
Viscosity / dynamic (at 20 °C):	not determined
Flow time:	not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.  
Refer to chapter 10.5.

**10.4. Conditions to avoid**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023	JEAN-151 SN100CV T3/T4 Product code: 950629	Page 8 of 13
---------------------------	--	--------------

Protect against: UV-radiation/sunlight. heat.

**10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Toxic metal fumes and metallic oxide fumes.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicocinetics, metabolism and distribution**

No data available.

**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (dermal) 26967,1 mg/kg; ATE (inhalation dust/mist) 12540,458 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol				
	dermal	LD50 (2764) mg/kg	Rabbit	REACH Dossier	OECD Guideline 402
144413-22-9	complex reaction mass of Chinese gum rosin post reacted with acrylic acid				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
7440-50-8	Copper in matrix, powdery				
	oral	LD50 > 2500 mg/kg	Rat	ECHA Dossier	WoE
	dermal	LD50 > 2000 mg/kg	Rat	ECHA Dossier	WoE

**Irritation and corrosivity**

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Contains N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No data available.

**Further information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].



according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023	JEAN-151 SN100CV T3/T4 Product code: 950629	Page 9 of 13
---------------------------	--	--------------

**SECTION 12: Ecological information****12.1. Toxicity**

Very toxic to aquatic life.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol					
	Acute fish toxicity	LC50 200 mg/l	96 h	Pimephales sp.	REACH Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 198,31 mg/l	72 h	Desmodesmus subspicatus	REACH Dossier	DIN 38412, part L9
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	REACH Dossier	OECD Guideline 202
144413-22-9	complex reaction mass of Chinese gum rosin post reacted with acrylic acid					
	Acute algae toxicity	ErC50 (>0,49) mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 (>1) mg/l	48 h	Daphnia magna	ECHA Dossier	
7440-50-8	Copper in matrix, powdery					
	Acute fish toxicity	LC50 [0,004-1,1] mg/l	96 h	Fish	ECHA Dossier	READ ACROSS
	Acute algae toxicity	ErC50 [0,018-0,987] mg/l		algae (72-96h)	ECHA Dossier	READ ACROSS
	Acute crustacea toxicity	EC50 [0,001-0,792] mg/l	48 h	daphnia	ECHA Dossier	READ ACROSS
	Fish toxicity	NOEC [0,002-0,188] mg/l	12 d	Fish (4-330d)	ECHA Dossier	READ ACROSS
	Algae toxicity	NOEC [0,01-0,05] mg/l		algae (10-19d)	ECHA Dossier	READ ACROSS
	Crustacea toxicity	NOEC [0,004-0,145] mg/l		daphnia (4-240d)	ECHA Dossier	READ ACROSS

**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol			
	OECD Guideline 301 A	>90	15	REACH Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
144413-22-9	complex reaction mass of Chinese gum rosin post reacted with acrylic acid			
	@1203.B120929	25%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			

**12.3. Bioaccumulative potential**

The product has not been tested.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023	JEAN-151 SN100CV T3/T4 Product code: 950629	Page 10 of 13
---------------------------	--	---------------

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
112-59-4	2-(2-hexyloxyethoxy)ethanol, 3,6-dioxa-1-dodecanol, 3,6-dioxadodecan-1-ol, DEGHE, diethylene glycol monohexyl ether, hexyl carbitol	1,7

**BCF**

CAS No	Chemical name	BCF	Species	Source
7440-50-8	Copper in matrix, powdery	0,02 - 20	Crangon crangon	

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.  
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**12.7. Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150202 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.  
Recommended cleaning agent: Water, if necessary together with cleansing agents.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number or ID number:** Not restricted**14.2. UN proper shipping name:** Not restricted**14.3. Transport hazard class(es):** Not restricted

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023	JEAN-151 SN100CV T3/T4 Product code: 950629	Page 11 of 13
---------------------------	--	---------------

**14.4. Packing group:** Not restricted

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** Not restricted

**14.2. UN proper shipping name:** Not restricted

**14.3. Transport hazard class(es):** Not restricted

**14.4. Packing group:** Not restricted

**Marine transport (IMDG)**

**14.1. UN number or ID number:** Not restricted

**14.2. UN proper shipping name:** Not restricted

**14.3. Transport hazard class(es):** Not restricted

**14.4. Packing group:** Not restricted

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** Not restricted

**14.2. UN proper shipping name:** Not restricted

**14.3. Transport hazard class(es):** Not restricted

**14.4. Packing group:** Not restricted

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Copper in matrix, powdery

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

2010/75/EU (VOC): 1,697 %

2004/42/EC (VOC): 0,018 %

Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No: not relevant

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

**Additional information**

Observe technical data sheet.

**15.2. Chemical safety assessment**

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 22/05/2023

JEAN-151 SN100CV T3/T4

Product code: 950629

Page 12 of 13

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,7,9,10,11,12,14,15,16.

20.03.2019, Rev. 1.0: Initial release

17.03.2023, Rev. 1.1/JTH: Changes in chapter: 1 - 16

22.05.2023, Rev. 1.2/JTH: Changes in chapter: 1,2,9,10,11,12,14,15,16

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NTP: National Toxicology Program

N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern

TRGS Technische Regeln fuerGefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation)

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

JEAN-151 SN100CV T3/T4

Revision date: 22/05/2023

Product code: 950629

Page 13 of 13

intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method
Aquatic Acute 1; H400	Calculation method

**Relevant H and EUH statements (number and full text)**

H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide). May produce an allergic reaction.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated. and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*