

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Safety data sheet according to Regulation (EC) 2020/878

Revision date 06/02/2024 Revision Number 1.76

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

1.1. Product identifier

Product Name Contact Treatment Grease

Product Code(s) CG53A, ECG53A35SL, ECG53A01K, ECG53A25K, ZE

Safety data sheet number 01476

Pure substance/mixture Mixture

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

Recommended use Lubricant

Uses advised against No specific uses advised against are identified

1.3. Details of the supplier of the safety data sheet

<u>Manufacturer</u> <u>Supplier</u>

ELECTROLUBE
MacDermid Alpha Electronics Solutions

ASHBY PARK, COALFIELD WAY,

ASHBY DE LA ZOUCH, LEICESTERSHIRE LE65 1JR

UNITED KINGDOM

+44 (0)1530 419600 +44 (0)1530 416640 info@electrolube.com Simpex Electronic AG

Binzackerstrasse 33

CH-8620 Wetzikon

P +41 44 931 10 10

For further information, please contact

E-mail address info@electrolube.com

1.4. Emergency telephone number

Emergency Telephone POISON INFORMATION CENTRE (Beaumont Hospital, Republic of Ireland only) +353 (0)1

809 2166 (08:00 - 22:00)

Emergency Telephone - IN CASE OF EMERGENCY CALL: +44 1865 407333 (24hr, Provided by Carechem 24)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] EUH210 - Safety data sheet available on request

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor InformationThis product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product contains no substances which at their given concentration, are considered to be hazardous to health

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Poly[oxy(methyl-1,2- ethanediyl)],α-butyl- ω-hydroxy- 9003-13-8	60-100	No data available	500-003-1	Not classified	-	-	-
Lithium 12-hydroxystearate 7620-77-1	5-10	No data available	231-536-5	[C]	-	-	-
Octadecyl 3-(3,5-di-tert-butyl-4 -hydroxyphenyl)prop ionate 2082-79-3	0.1-1	No data available	218-216-0	[C]	-	-	-
Benzotriazole 95-14-7	0.1-1	01-2119979079-20-00 00	202-394-1	Aquatic Chronic 2 (H411) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	-	-	-
Diphenylamine 122-39-4	<0.1	No data available	204-539-4	Aquatic Chronic 1 (H410) STOT RE 2 (H373) Aquatic Acute 1 (H400) Acute Tox. 3 (H311) Acute Tox. 3 (H301) Acute Tox. 3 (H331)	_	-	-

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

Full text of H- and EUH-phrases: see section 16

[[]C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

Acute Toxicity Estimate

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
Poly[oxy(methyl-1,2-etha nediyl)],α-butyl-ω-hydrox y- 9003-13-8		13340	No data available	No data available	No data available
Lithium 12-hydroxystearate 7620-77-1	No data available	3000	No data available	No data available	No data available
Octadecyl 3-(3,5-di-tert-butyl-4-hydr oxyphenyl)propionate 2082-79-3	5000	2000	No data available	No data available	No data available
Benzotriazole 95-14-7	560	10000	1.4325	No data available	No data available
Diphenylamine 122-39-4	1120	2000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

doctor.

Ingestion Rinse mouth.

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

Symptoms No information available.

Effects of Exposure None.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

ZE - Contact Treatment Grease

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

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Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upTake up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	Europear	Union	Austria	Belgium	Bulg	aria	Croatia
Diphenylamine 122-39-4	-		TWA: 0.7 ppm TWA: 5 mg/m ³ STEL 1.4 ppm STEL 10 mg/m ³ H*	TWA: 10 mg/m ³	TWA: 10) mg/m³	TWA: 10 mg/m³ STEL: 20 mg/m³
Chemical name	Cypr	us	Czech Republic	Denmark	Esto		Finland
Diphenylamine 122-39-4	-		TWA: 10 mg/m ³ Ceiling: 20 mg/m ³ D*	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 10) mg/m³	TWA: 5 mg/m ³ STEL: 10 mg/m ³
Chemical name	Fran	се	Germany TRGS	Germany DFG	Gre	ece	Hungary
Lithium 12-hydroxystearate 7620-77-1	•		-	TWA: 0.2 mg/m ³	-	•	•
Octadecyl 3-(3,5-di-tert-butyl-4-hydro xyphenyl)propionate 2082-79-3	1		TWA: 20 mg/m ³	TWA: 20 mg/m³ Peak: 40 mg/m³	-	•	•
Benzotriazole 95-14-7	-		-	*	-		-
Diphenylamine 122-39-4	TWA: 10	mg/m³	TWA: 5 mg/m ³ H*	TWA: 5 mg/m³ Peak: 10 mg/m³ *	TWA: 10 STEL: 20		-
Chemical name	Irela	nd	Italy MDLPS	Italy AIDII	Lat	via	Lithuania
Benzotriazole 95-14-7	-		-	-	TWA: 5	mg/m³	-
Diphenylamine 122-39-4	TWA: 10 STEL: 20	mg/m³	-	TWA: 10 mg/m ³	-		STEL: 12 mg/m ³ TWA: 4 mg/m ³
Chemical name	Luxemb	ourg	Malta	Netherlands	Non		Poland
Diphenylamine 122-39-4	•		-	-	TWA: 5 STEL: 10	0 mg/m ³	TWA: 8 mg/m ³
Chemical name	Portu	gal	Romania	Slovakia	Slov		Spain
Octadecyl 3-(3,5-di-tert-butyl-4-hydro xyphenyl)propionate 2082-79-3	-		-	-	TWA: 20 STEL: 40		-
Diphenylamine 122-39-4	TWA: 10	mg/m³	TWA: 4 mg/m ³ STEL: 6 mg/m ³	-	TWA: 5 STEL: 10 K	0 mg/m ³	TWA: 10 mg/m ³
Chemical name	Chemical name		Sweden	Switzerlan			nited Kingdom
Diphenylamine 122-39-4			ande KGV: 12 mg/m³ NGV: 4 mg/m³	TWA: 10 mg H*	/m³	TV ST	VA: 10 mg/m ³ EL: 20 mg/m ³

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic

				T
Diphenylamine	- 10 g/dL Hemoglobin	-	-	-
122-39-4	(blood - not			
	provided)			
	12 g/dL Hemoglobin			
	(blood - not			
	provided)			
	79 - 97 fL mean			
	corpuscular volume			
	(blood - not			
	`provided)			
	3.2 million/µL			
	Erythrocytes (blood -			
	not provided)			
	3.8 million/µL			
	Erythrocytes (blood -			
	not provided)			
	4000 Leukocytes/µL			
	(blood - not			
	provided)			
	13000			
	Leukocytes/µL (blood - not			
	provided)			
	130000			
	Thrombocytes/µL			
	(blood - not			
	provided)			
	150000			
	Thrombocytes/µL			
	(blood - not			
	provided)			
	<=50 U/I (- Serum			
	transaminases			
	SGOT not provided)			
	<=35 U/I (- Serum			
	transaminases			
	SGOT not provided)			
	<=50 U/I (- Serum			
	transaminases			
	SGPT not provided)			
	<=35 U/I (- Serum			
	transaminases			
	SGPT not provided)			
	<=66 U/I (- Serum			
	transaminases GGT			
	not provided)			
	<=39 Ú/I (- Serum			
	transaminases GGT			
	not provided)			
	(urine - one time			
	yearly urine			
	cytological			
	examination)			
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Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Poly[oxy(methyl-1,2-ethanediyl)],α-but	-	0.83 mg/kg bw/day [4] [6]	2.9 mg/m³ [4] [6]

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Chemical name	Oral	Dermal	Inhalation
yl-ω-hydroxy- 9003-13-8			
Lithium 12-hydroxystearate 7620-77-1	-	41 mg/kg bw/day [4] [6] 0.172 mg/cm2 [5] [6]	-

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Notes

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

Derived No Effect Level (DNEL) - General Public .

Chemical name	Oral	Dermal	Inhalation
Poly[oxy(methyl-1,2-ethanediyl)],α-but yl-ω-hydroxy- 9003-13-8	0.42 mg/kg bw/day [4] [6] 2.5 mg/kg bw/day [4] [7]	-	-
Lithium 12-hydroxystearate 7620-77-1	41 mg/kg bw/day [4] [6] 41 mg/kg bw/day [4] [7]	0.086 mg/cm2 [5] [6]	-

Notes

[4] Systemic health effects.[5] Local health effects.[6] Long term.

[7] Short term.

Predicted No Effect Concentration (PNEC) .

Chemical name	Freshwater	Freshwater	Marine water	Marine water	Air
		(intermittent release)		(intermittent release)	
Poly[oxy(methyl-1,2-ethan ediyl)],α-butyl-ω-hydroxy-9003-13-8	•	3.33 mg/L	0.0333 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Poly[oxy(methyl-1,2-ethan ediyl)],α-butyl-ω-hydroxy-9003-13-8	5.02 mg/kg sediment dw	0.502 mg/kg sediment dw	100 mg/L	0.809 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protectionNo special protective equipment required.

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Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid **Appearance** Grease Colour beige Odour Oil.

Odour threshold No information available

Values Remarks • Method **Property**

Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known **Flammability** No data available None known Flammability Limit in Air None known

Upper flammability or explosive

No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** None known

None known

No data available pH (as aqueous solution) No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known Water solubility No data available None known Solubility(ies) No data available None known Partition coefficient No data available None known Vapour pressure 0.001 mm Hg @ 20°C/68°F None known Relative density No data available None known

0.995 kg/l **Bulk density**

Liquid Density No data available

Relative vapour density No data available None known

Particle characteristics

No information available **Particle Size Particle Size Distribution** No information available

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Explosive properties Not considered to be explosive.

Does not meet the criteria for classification as oxidizing. Oxidising properties

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoidNone known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

Based on available data, the classification criteria are not met

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 6,314.20 mg/kg **ATEmix (dermal)** 11,194.10 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Poly[oxy(methyl-1,2-ethanediyl)] ,α-butyl-ω-hydroxy-	= 5840 mg/kg (Rat)	= 13340 mg/kg (Rabbit)	-
Lithium 12-hydroxystearate	-	> 3000 mg/kg (Rabbit)	-
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphe nyl)propionate	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 1811 mg/m³ (Rat)4 h
Benzotriazole	= 560 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 1910 mg/m ³ (Rat) 3 h
Diphenylamine	= 1120 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationBased on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

Reproductive toxicity 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 exposureBased on available data, the classification criteria are not met.

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Octadecyl	EC50: >30mg/L (72h,	LC50: >100mg/L (96h,	-	-
3-(3,5-di-tert-butyl-4-hydr	Desmodesmus	Lepomis macrochirus)		
oxyphenyl)propionate	subspicatus)			
Benzotriazole	EC50: =15.4mg/L (96h,	LC50: =39mg/L (96h,	-	EC50: =141.6mg/L (48h,
	freshwater algae)	Oncorhynchus mykiss)		water flea)
Diphenylamine	EC50: =1.5mg/L (72h,	LC50: 3.47 - 4.14mg/L	-	EC50: 1.69 - 2.46mg/L
	Scenedesmus	(96h, Pimephales		(48h, Daphnia magna)
	subspicatus)	promelas)		,

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Chemical name	Partition coefficient
Poly[oxy(methyl-1,2-ethanediyl)],α-butyl-ω-hydroxy-	4.37
Diphenylamine	3.4

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

The product does not contain any substance(s) classified as PBT or vPvB above the

threshold of declaration.

Chemical name	PBT and vPvB assessment
Poly[oxy(methyl-1,2-ethanediyl)],α-butyl-ω-hydroxy-	The substance is not PBT / vPvB
Lithium 12-hydroxystearate	The substance is not PBT / vPvB Further information relevant for the PBT assessment is necessary
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	The substance is not PBT / vPvB
Benzotriazole	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine

disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

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•	.,.

products

14.1UN number or ID numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special precautions for user

Special Provisions Nor

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

occupational infocuses (it is of interest)	
Chemical name	French RG number
Diphenylamine - 122-39-4	RG 15,RG 15bis

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

	() ()	· - /,
Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Diphenylamine - 122-39-4	75.	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex
	Number
Diphenylamine - 122-39-4	I.1
	1.2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status **DSL/NDSL** Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **ENCS IECSC** Contact supplier for inventory compliance status **KECI** Contact supplier for inventory compliance status **PICCS** Contact supplier for inventory compliance status AIIC Contact supplier for inventory compliance status **NZIoC** Contact supplier for inventory compliance status

Legena:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report

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

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk* Skin designation

+ Sensitisers

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC)

European Chemicals Agency (ECHA) (ECHA_API)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date

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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet