SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL
Registration number	-
Synonyms	None.
Issue date	27-January-2017
Version number	01

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

Identified uses	Pavement Joint Sealant
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

MANUFACTURER:	Crafco, Inc.
Address:	6165 West Detroit St. Chandler, AZ 85226 USA
Contact Name:	Jim Chehovits
Telephone:	602-276-0406
e-mail:	jim.chehovits@crafco.com
CHEMTREC:	800-424-9300 (North America) + 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R52/53

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Reproductive toxicity	Category 2	H361 - Suspected of damaging fertility or the unborn child.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards	Toxic if swallowed.
Main symptoms	Not available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Toluene

Hazard pictograms

Signal word Warning

Hazard statements

H361	Suspected of damaging fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.

Response

	If exposed or if you feel unwell: Get medical advice/attention.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P391	Collect spillage.

Storage

P405	Store locked up.

Disposal

	See section 13 of this SDS for disposal instructions.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information 40,29 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Polydimethylsiloxane	15 - 40	9016-00-6 -	-	-	
Classification:	**DSD:** N;R51/53				
	CLP: Aquatic Chronic 2;H411				
Toluene	0 - 2	108-88-3 203-625-9	-	601-021-00-3	#
Classification:	**DSD:** F;R11, Repr. Cat. 3;R63, Xn;R65-48/20, Xi;R38, R67				
	CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, STOT RE 2;H373, Aquatic Chronic 2;H411				
Other components below reportable levels	78,68				

Composition comments The full text for all R-phrases is displayed in Section 16.

SECTION 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible). Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before re-use.

4.1. Description of first aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact IF ON SKIN: Gently wash with plenty of soap and water. If irritation persists get medical attention.

Eye contact Immediately rinse with water for several minutes. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Not available.

4.3. Indication of any immediate medical attention and special treatment needed Keep victim warm. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture Irritating, corrosive and/or toxic gases or fumes will be released during a fire.

5.3. Advice for firefighters

Special protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire fighting procedures Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray.

Specific methods Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up Eliminate sources of ignition. Dike far ahead of spill for later disposal. Following product recovery, flush area with water.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Avoid contact with skin, eyes and clothing. Do not ingest. Wash hands after handling and before eating. When using, do not eat, drink or smoke. Avoid contact during pregnancy/while nursing. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities Store in a cool and well-ventilated place.

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
Silica (CAS 112945-52-5)	MAK	4 mg/m3	Inhalable fraction.
TOLUENE (CAS 108-88-3)	MAK	190 mg/m3 50 ppm	
	STEL	380 mg/m3 100 ppm	

Belgium. Exposure Limit Values.

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	77 mg/m3 20 ppm

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
Silica (CAS 112945-52-5)	TWA	10 mg/m3	Inhalable fraction.
		0,07 mg/m3	Respirable fraction.

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm	
	TWA	192 mg/m3 50 ppm	

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value	Form
Silica (CAS 112945-52-5)	MAC	6 mg/m3	Total dust.
		2,4 mg/m3	Respirable dust.
TOLUENE (CAS 108-88-3)	MAC	192 mg/m3 50 ppm	
	STEL	384 mg/m3 100 ppm	

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	2 mg/m3
TOLUENE (CAS 108-88-3)	TWA	375 mg/m3 100 ppm

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Silica (CAS 112945-52-5)	TWA	4 mg/m3	Dust.
TOLUENE (CAS 108-88-3)	Ceiling	500 mg/m3	
	TWA	200 mg/m3	

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3

Components	Type	Value
TOLUENE (CAS 108-88-3)	TLV	94 mg/m3 25 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
Silica (CAS 112945-52-5)	TWA	2 mg/m3	Respirable dust.
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm	
	TWA	192 mg/m3 50 ppm	

Finland. Workplace Exposure Limits

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	5 mg/m3
TOLUENE (CAS 108-88-3)	STEL	380 mg/m3 100 ppm
	TWA	81 mg/m3 25 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
TOLUENE (CAS 108-88-3)	VLE	384 mg/m3 100 ppm
	VME	76,8 mg/m3 20 ppm

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value
TOLUENE (CAS 108-88-3)	TWA	190 mg/m3 50 ppm

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Silica (CAS 112945-52-5)	AGW	4 mg/m3	Inhalable fraction.
TOLUENE (CAS 108-88-3)	AGW	190 mg/m3 50 ppm	

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	380 mg/m3
	TWA	190 mg/m3

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	188 mg/m3 50 ppm
	TWA	94 mg/m3 25 ppm

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Silica (CAS 112945-52-5)	TWA	6 mg/m3	Total inhalable dust.
		2,4 mg/m3	Respirable dust.
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm	
	TWA	192 mg/m3 50 ppm	

Italy. Occupational Exposure Limits

Components	Type	Value
TOLUENE (CAS 108-88-3)	TWA	192 mg/m3 50 ppm

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	1 mg/m3
TOLUENE (CAS 108-88-3)	STEL	150 mg/m3 40 ppm
	TWA	50 mg/m3 14 ppm

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm

Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)

Components	Type	Value
	TWA	192 mg/m3 50 ppm

Netherlands. OELs (binding)

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3
	TWA	150 mg/m3

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Silica (CAS 112945-52-5)	TLV	1,5 mg/m3	Respirable dust.
TOLUENE (CAS 108-88-3)	TLV	94 mg/m3 25 ppm	

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	200 mg/m3
	TWA	100 mg/m3

Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value
TOLUENE (CAS 108-88-3)	TWA	50 ppm

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
Polydimethylsiloxane (CAS 9016-00-6)	STEL	300 mg/m3
	TWA	200 mg/m3
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value
Silica (CAS 112945-52-5)	TWA	0,3 mg/m3
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
Silica (CAS 112945-52-5)	TWA	4 mg/m3	Inhalable fraction.
TOLUENE (CAS 108-88-3)	TWA	192 mg/m3 50 ppm	

Spain. Occupational Exposure Limits

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Sweden. Occupational Exposure Limit Values

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	760 mg/m3 200 ppm
	TWA	190 mg/m3 50 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Silica (CAS 112945-52-5)	TWA	6 mg/m3	Inhalable dust.
		2,4 mg/m3	Respirable dust.
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm	
	TWA	191 mg/m3 50 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

Biological limit values

Czech Republic. Limit Values for Indictators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

Components	Value	Determinant	Specimen	Sampling time
TOLUENE (CAS 108-88-3)	1000 µmol/mmol	Hippuric acid	Creatinine in urine	*
	1600 mg/g	Hippuric acid	Creatinine in urine	*

* - For sampling details, please see the source document.

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling time
TOLUENE (CAS 108-88-3)	500 nmol/l	Toluene concentration	Blood	*

* - For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Components	Value	Determinant	Specimen	Sampling time
TOLUENE (CAS 108-88-3)	2500 mg/g	Acide hippurique	Creatinine in urine	*
	2500 mg/g	Acide hippurique	Creatinine in urine	*
	1 mg/l	Toluène	Venous blood	*

* - For sampling details, please see the source document.

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
TOLUENE (CAS 108-88-3)	600 µg/l	Toluol	Blood	*
	1,5 mg/l	o-Kresol (nach Hydrolyse)	Urine	*

* - For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling time
TOLUENE (CAS 108-88-3)	1 mg/g	o-crezol	Creatinine in urine	*
	1,05 µmol/mmol	o-crezol	Creatinine in urine	*

* - For sampling details, please see the source document.

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling time
TOLUENE (CAS 108-88-3)	600 µg/l	Toluene	Blood	*
	1600 mg/g	Hippuric acid	Creatinine in urine	*
	1,03 mg/g	o-cresol (Phenol, 2-methyl-)	Creatinine in urine	*
	2401 mg/l	Hippuric acid	Urine	*
	1,5 mg/l	o-cresol (Phenol, 2-methyl-)	Urine	*

* - For sampling details, please see the source document.

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Components	Value	Determinant	Specimen	Sampling time
TOLUENE (CAS 108-88-3)	1,6 g/g	Ácido hipúrico	Creatinine in urine	*
	0,5 mg/l	o-cresol (Phenol, 2-methyl-)	Urine	*
	0,05 mg/l	Tolueno	Blood	*

* - For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Determinant	Specimen	Sampling time
TOLUENE (CAS 108-88-3)	600 µg/l	Toluol	Blood	*
	2 g/g	Hippursäure	Creatinine in urine	*
	0,5 mg/l	o-Kresol	Urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Not available.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

EU Exposure Limit Values: Skin designation

Toluene (CAS 108-88-3) Can be absorbed through the skin.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Toluene (CAS 108-88-3) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation if fumes or vapours are generated.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Keep working clothes separately.

Eye/face protection Goggles/face shield are recommended.

Skin protection

- Hand protection Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

- Other	Wear appropriate chemical resistant clothing.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	Not available.
Hygiene measures	When using, do not eat, drink or smoke. Use good industrial hygiene practices in handling this material. Wash hands before breaks and immediately after handling the product.
Environmental exposure controls	Environmental manager must be informed of all major spillages. Avoid release to the aquatic environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Physical state	Liquid.
Form	Paste.
Colour	Grey.
Odour	Slight.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	< 65,56 °C (< 150 °F)
Flash point	> 200,0 °C (> 392,0 °F)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	> 371,11 °C (> 700 °F)
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

Percent volatile	< 5 %
Specific gravity	1 - 1,5

SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
10.2. Chemical stability	Material is stable under normal conditions. Stable under normal temperature conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Temperatures above °C
10.5. Incompatible materials	Strong acids, alkalies and oxidizing agents.
10.6. Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Toxic gas.

SECTION 11: Toxicological information

General information Not available.

Information on likely routes of exposure

Inhalation Health injuries are not known or expected under normal use.

Skin contact Causes mild skin irritation.

Eye contact May be irritating to eyes.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms Not available.

11.1. Information on toxicological effects

Acute toxicity Not classified.

Components	Species	Test results
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	14,1 ml/kg
Inhalation		
LC50	Rat	8000 ppm, 4 Hours
Oral		
LD50	Rat	2,6 g/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Not available.

Respiratory sensitisation Not available.

Skin sensitisation Not available.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

Mixture versus substance information Not available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Contains a substance which causes risk of hazardous effects to the environment.

Product		Species	Test results
Crafco Roadsaver Silicone NS Sealant, Roadsaver Silicone SL			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5,46 - 9,83 mg/l, 48 hr
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	5,5 mg/l, 96 hr

Components		Species	Test results
Polydimethylsiloxane (CAS 9016-00-6)			
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	2,36 - 4,15 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5,46 - 9,83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8,11 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability Not available.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

Toluene	2,73

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

EU waste code Waste codes should be assigned by the user based on the application for which the product was used. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information Do not dispose of waste into sewer. Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not available.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, Article 59(1). Candidate List

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Toluene (CAS 108-88-3)

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Toluene (CAS 108-88-3)

Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.
National regulations	Not available.
15.2. Chemical safety assessment	Not available.

SECTION 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R11 Highly flammable. R38 Irritating to skin. R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R63 Possible risk of harm to the unborn child. R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness. H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.

Revision information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Ecological Information: Ecotoxicity Transport Information: Product Shipping Name/Packing Group Regulatory Information: United States HazReg Data: International Inventories GHS: Classification
Training information	Not available.
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.