




SAFETY DATA SHEET

WHMIS 2015 • OSHA HCS (29 CFR 1910.1200) • NOM-018-STPS-2015

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	Silmer NCO Di-50
Product code	5761.1
Chemical Name	Siloxanes and Silicones, di-Me, 3-[[[4-[(4-isocyanatocyclohexyl)methyl]cyclohexyl] amino] carbonyl] oxy] propyl group terminated
CAS No.	1411848-76-4 / 5124-30-1
1.2 Recommended use of the chemical and restrictions on use	
Identified use(s)	intermediate use
Uses advised against	None known
1.3 Details of the supplier of the Safety Data Sheet	
Company Identification	Siltech Corp 225 Wicksteed Ave Toronto, ON Canada M4H 1G5
Telephone	+1-416-424-4567
Fax	+1-416-424-3158
E-Mail (competent person)	raj@siltech.com
Additional Location	Siltech Corp 3265 Wolfedale Road, Mississauga ON Canada L5C 1V8
Telephone	+1-905-270-5534
Fax	+1-905-270-5816
1.4 Emergency telephone number	
Emergency Phone No.	CANUTECH - TELEPHONE: EMERGENCY USE ONLY +1-613-996-6666

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	Acute Tox. 3 - Inhalation Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 Resp. Sens. 1 STOT SE 3 - Respiratory system
2.2 Label elements	
Product Name	Silmer NCO Di-50
Symbol	
Signal word(s)	Danger
Hazard statement(s)	H331: Toxic if inhaled. H315: Causes skin irritation. H319: Causes serious eye irritation. H317: May cause an allergic skin reaction. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation.
Precautionary statement(s)	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash hands and exposed skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P272: Contaminated work clothing should not be allowed

out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P285: In case of inadequate ventilation wear respiratory protection.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P363: Wash contaminated clothing before reuse.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container to: Observe Local Regulations.
None known

2.3 Other hazards

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous ingredient(s)	Synonym(s)	%W/W	CAS No.	EC No.	Hazard pictogram(s) and Hazard statement(s)
Siloxanes and Silicones, di-Me, 3-[[[4-[(4-isocyanantocyclohexyl)methyl]cyclohexyl] amino] carbonyl] oxy] propyl group terminated	Isocyanate functional silicone	95 - 99	1411848-76-4	Not applicable	GHS07 : H315
dicyclohexylmethane-4,4'-di-isocyanate	HMDI	1 - 5	5124-30-1	225-863-2	GHS06, GHS08 H315, H319, H317 H331, H334, H335

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If signs/symptoms continue, get medical attention.
Skin Contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation to skin, eyes and respiratory system. May cause sensitization by inhalation and skin contact.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 Extinguishing Media**
Suitable Extinguishing Media In case of fire, use water spray, foam, dry powder or CO2 for extinction. Keep containers cool by spraying with water if exposed to fire.
Unsuitable Extinguishing Media None known
- 5.2 Special hazards arising from the substance or mixture** Silicon Dioxide, carbon oxides, incompletely burned carbon compounds, formaldehyde.
- 5.3 Advice for fire-fighters** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- 6.2 Environmental precautions** Avoid release to the environment.
- 6.3 Methods and material for containment and cleaning up** Caution - spillages may be slippery. Cover spills with inert absorbent material. Transfer to a container for disposal.
- 6.4 Reference to other sections** See Section: 7 & 8.



7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid contact with skin and eyes. Avoid ingestion. Use only with sufficient ventilation. Wash thoroughly after handling. General hygiene measures for the handling of chemicals are applicable.
- 7.2 Conditions for safe storage, including any incompatibilities**
Storage Temperature Store in a tightly closed container. Do not allow product to come into contact with water or moisture.
Storage Life Ambient
Incompatible materials Stable under normal conditions.
Oxidizing agents, Reacts with moisture.
- 7.3 Specific end use(s)** Industrial use

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Dicyclohexylmethane-4,4'-Diisocyanate	5124-30-1	0.005				ACGIH

- 8.1.2 Biological limit value** Not established
- 8.1.3 PNECs and DNELs** Not established
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Provide adequate ventilation.
- 8.2.2 Personal protection equipment**
- Eye/face protection
 Wear protective eyewear (goggles, face shield, or safety glasses).
- Skin protection (Hand protection/ Other)
 Wear suitable gloves if prolonged skin contact is likely. Nitrile rubber, Butyl rubber
- Respiratory protection
In case of inadequate ventilation wear respiratory protection.



Thermal hazards

8.2.3 Environmental Exposure Controls

In order to avoid the inhalation from spray and abrasive dust, all spray and grinding works must be carried out with suitable respirator.

None.

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colourless liquid.
Odour	Almost odourless.
Odour Threshold	Not available.
pH	Not available.
Melting Point/Freezing Point	Not available.
Initial boiling point and boiling range	>100°C @ 760mmHg
Flash point (PMCC)	>100°C
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density / Specific Gravity (25°C)	0.98
Solubility(ies)	Reacts with moisture.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity (25°C)	100 - 2000 cps
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions. Reacts with moist air or water.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Reacts with heat and moisture.
10.4 Conditions to avoid	Do not allow product to come into contact with water or moisture.
10.5 Incompatible materials	Oxidizing agents. Sensitive to heat and moisture.
10.6 Hazardous Decomposition Product(s)	Silicon Dioxide, carbon oxides, incompletely burned carbon compounds, formaldehyde.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion	May be harmful if swallowed.
Inhalation	Toxic if inhaled.
Skin Contact	Causes skin irritation.
Eye Contact	Causes eye irritation.

Effects and Symptoms

skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	May cause sensitization by inhalation and skin contact.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	Not classified

Aspiration hazard	Not classified
Delayed and chronic effects	Not available
Calculated acute toxicity estimate (ATE)	Not available

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Not available.
12.2 Persistence and degradability	Not available.
12.3 Bioaccumulative potential	Not available.
12.4 Mobility in soil	Not available.
12.5 Results of PBT and VPVB assessment	Not available.
12.6 Other adverse effects	None known

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Do not empty into drains; dispose of this material and its container in a safe way.
13.2 Additional Information	Dispose of contents in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN No.	2206
14.2 Proper Shipping Name	Isocyanate solutions, toxic, n.o.s (Isocyanate-terminated silicone polymer)
14.3 Class	6.1 Packing group III

15. SECTION 15: REGULATORY INFORMATION

15.1 EU regulations	
REACH Registration No.	Polymer exempt / Not available
Candidate List of Substances of Very High Concern for Authorisation	Possible trace amounts of: Octamethylcyclotetrasiloxane (CAS# 556-67-2) < 0.1% Decamethylcyclopentasiloxane (CAS# 541-02-6) < 0.1% Dodecamethylcyclohexasiloxane (CAS# 540-97-6) < 0.1%
Contains:	4,4'-methylenedi(cyclohexyl isocyanate) (EC# 225-863-2) 1 – 5%

15.2 International Inventories

Country	Listed	Not listed	Polymer exempt	Other
United States (TSCA)		X		
Canada (DSL/NDSL)		X		
European Union (EINECS/ELINCS)	✓		✓	
Australia (AICS)		X		
China (IECSC)		X		
Japan (ENCS)		X		
South Korea (KECI)		X		
Taiwan (TCSI)		X		
New Zealand (NZIoC)		X		
Philippines (PICCS)		X		

15.3 National regulations

United States (TSCA)	This product is for R&D purposes only. H = 3 / F = 1 / R = 1 H = 3 / F = 1 / R = 1
HMIS (Hazardous Material Information System)	
NFPA Rating	

15.4 US State Regulations

15.5.1 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM	None known.
15.5.2 SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER	None known.
15.5.3 State Right to Know Lists	METHYLENE BIS(4-CYCLOHEXYLISOCYANATE) (CAS# 5124-30-1) 1 – 5%

16. SECTION 16: OTHER INFORMATION

Revision: **August 11, 2022**

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative

Hazard statement(s) and Precautionary statement(s)

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Hazard pictogram(s) and Hazard Symbol



GHS06

GHS08

Additional Information

Disclaimers

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