

DOWSIL[™] TC-5121C LV Thermally Conductive Compound

Version 4.0	Revision Date: 10/23/2017	-	DS Number: 7925-00013	Date of last issue: 03/28/2017 Date of first issue: 10/11/2014			
SECTION 1. IDENTIFICATION							
Product name		:	DOWSIL™ TC-5121C LV Thermally Conductive Compound				
Pro	duct code	:	04122375	04122375			
Ma	nufacturer or supplier's	deta	ails				
Company Identification		:	THE DOW CHEMICAL COMPANY 2030 DOW CENTER MIDLAND MI 48674-0000 UNITED STATES				
Tele	ephone	:	800-258-2436				
24-	Hour Emergency Contact	:	Chemtrec +1 800)-424-9300			
Loc	Local Emergency Number		800-424-9300				
E-mail address		:	SDSQuestion@de	ow.com			
Rec	commended use of the c	hen	nical and restriction	ons on use			
Recommended use		:	Electrical industry and electronics				

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / M	lixture	:	Mixture

Chemical nature

: Silicone compound

Hazardous ingredients

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution.





Version 4.0	Revision Date: 10/23/2017		DS Number: 27925-00013	Date of last issue: 03/28/2017 Date of first issue: 10/11/2014	
			Get medical atte	ntion if symptoms occur.	
In cas	In case of eye contact			water as a precaution. ntion if irritation develops and persists.	
lf swa	If swallowed		If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
	important symptoms affects, both acute and ed	:	None known.		
Prote	ction of first-aiders	:	No special preca	autions are necessary for first aid responders.	
Notes	s to physician	:	Treat symptoma	tically and supportively.	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Silicon oxides Metal oxides Formaldehyde
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	:	Follow safe handling advice and personal protective
tive equipment and emer-		equipment recommendations.
gency procedures		



DOWSIL[™] TC-5121C LV Thermally Conductive Compound

Version 4.0	Revision Date: 10/23/2017		OS Number: 7925-00013	Date of last issue: 03/28/2017 Date of first issue: 10/11/2014	
Environmental precautions		:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
Methods and materials for containment and cleaning up		:	For large spills, p containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national disposal of this m employed in the c determine which Sections 13 and	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. IS of this SDS provide information regarding tional requirements.	

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Processing may form hazardous compounds (see section 10).		
		Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.		

DOWSIL[™] TC-5121C LV Thermally Conductive Compound



Version 4.0	Revision Date: 10/23/2017		DS Number: 7925-00013	Date of last issue: 03/28/2017 Date of first issue: 10/11/2014	
Pers	onal protective equipm	nent			
Respiratory protection		:	No personal respiratory protective equipment normally required.		
Hand	I protection				
Remarks		:	Wash hands before breaks and at the end of workday.		
Eye p	Eye protection		Wear the following personal protective equipment: Safety glasses		
Skin	Skin and body protection		Skin should be washed after contact.		
Hygiene measures :		:	Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. U elevated temperature or aerosol/spray applications may require added precautions.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grease
Color	:	Greenish yellow
Odor	:	none
Odor Threshold	:	No data available
рН	:	Not applicable
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	Not applicable
Flash point	:	> 100 °C Method: Seta closed cup
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Not classified as a flammability hazard
Self-ignition	:	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available

DOWSIL[™] TC-5121C LV Thermally Conductive Compound



Versio 4.0	n Revision 10/23/2			S Number: '925-00013	Date of last issue: 03/28/2017 Date of first issue: 10/11/2014
fla	ammability limi	t			
V	Vapor pressure		:	Not applicable	
R	elative vapor c	lensity	:	No data available)
R	elative density		:	4.2	
S	Solubility(ies) Water solubility		:	No data available	9
	Partition coefficient: n- octanol/water		:	No data available)
A	Autoignition temperature		:	No data available)
D	Decomposition temperature		:	No data available)
V	Viscosity Viscosity, dynamic		:	Not applicable	
E	Explosive properties		:	Not explosive	
0	Oxidizing properties		:	The substance of	r mixture is not classified as oxidizing.
М	Molecular weight		:	No data available)
Particle size		:	No data available	9	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents

Hazardous decomposition products

Thermal decomposition : Formaldehyde



DOWSIL[™] TC-5121C LV Thermally Conductive Compound

Version	Revision Date:	SDS Number:	Dat
4.0	10/23/2017	627925-00013	Dat

Date of last issue: 03/28/2017 Date of first issue: 10/11/2014

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.



DOWSIL[™] TC-5121C LV Thermally Conductive Compound

Version	Revision Date:	SDS Number:	Date
4.0	10/23/2017	627925-00013	Date

Date of last issue: 03/28/2017 Date of first issue: 10/11/2014

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Resource Conservation and Recovery Act (RCRA)	:	This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.
Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good



DOWSIL[™] TC-5121C LV Thermally Conductive Compound

Version	Revision Date:	SDS Number:	Date of last issue: 03/28/2017
4.0	10/23/2017	627925-00013	Date of first issue: 10/11/2014

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Cadmium oxide	1306-19-0	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards		
SARA 313	:	: The following components are subject to reporting levels established by SARA Title III, Section 313:		
		Vinyl, Methyl, Siloxane modified Zinc Oxide	Not Assigned	>= 68 - <= 100 %

US State Regulations

Pennsylvania Right To Know

Vinyl, Methyl, Siloxane modified Zinc Oxide Not Assigned

California Prop. 65

WARNING: This product can expose you to chemicals including Cadmium oxide, Lead monoxide, which is/are known to the State of California to cause cancer, and Toluene, Methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Vinyl, Methyl, Siloxane modified Zinc Oxide	Not Assigned
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The ingredients of this product are reported in the following inventories: NZIoC : All ingredients listed or exempt.

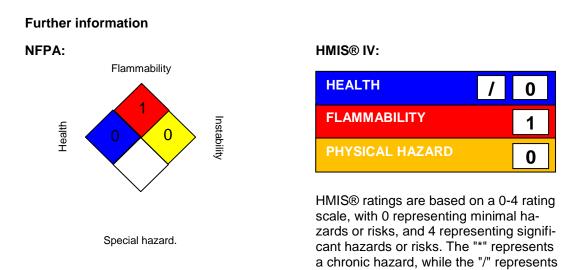
NEIOC	•	All ingredients listed of exempt.
REACH	:	For purchases from Dow Chemical EU legal entities, all ingredients are currently pre/registered or exempt under REACH. Please refer to section 1 for recommended uses. For purchases from non-EU Dow Chemical legal entities with the intention to export into EEA please contact your DC representative/local office.
IECSC	:	All ingredients listed or exempt.
ENCS/ISHL	:	Consult your local Dow Chemical office.
DSL	:	This product contains one or more substances which are not



DOWSIL[™] TC-5121C LV Thermally Conductive Compound

Version 4.0	Revision Date: 10/23/2017		Number: 25-00013	Date of last issue: 03/28/2017 Date of first issue: 10/11/2014
TSCA		th lin : Al ex 8(m	 on the Canadian Domestic Substances List (DSL). Impothis product into Canada has volume limitations. For volulimits please consult Dow Chemical Regulatory Complia All chemical substances in this material are included on exempted from listing on the Toxic Substances Control <i>A</i> 8(b) Inventory. One or more chemical substances in this material meet the polymer exemption criteria in 40 CFR 723.250. 	
AICS		: O	ne or more ingr	edients are not listed or exempt.
KECI		: Al	: All ingredients listed, exempt or notified.	
PICCS	5	: Al	: All ingredients listed or exempt.	
TCSI		: Al	l ingredients lis	ted or exempt.

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Associa-

the absence of a chronic hazard.



DOWSIL[™] TC-5121C LV Thermally Conductive Compound

Version	Revision Date:	SDS Number:	Date of last issue: 03/28/2017
4.0	10/23/2017	627925-00013	Date of first issue: 10/11/2014

tion; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR -No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

Sources of key data used to : compile the Material Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Revision Date

: 10/23/2017

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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US / Z8