



SAFETY DATA SHEET

Part Number GL-60-10
Sold By: Wakefield-Vette

1. Identification

Product identifier	THERM-A-GAP™ GEL 8010 (XTS-8010)
Other means of identification	
SDS number	PHC-159
Product code	65-00-GEL8010-0010; 65-00-GEL8010-0030
Recommended use	Fully cured dispensable gel for use in gap filling.
Recommended restrictions	No restrictions on use known.
Chemical family	Material is a fully cured compound consisting of: Inorganic substances in powdered form; Silicone gel; Siloxanes.
Manufacturer	
Company name	Parker Hannifin Corp.
Address	Chomerics Division 77 Dragon Court Woburn, MA, USA 01888
Telephone	(781) 935 4580
Website	www.chomerics.com
E-Mail	chomailbox@parker.com
Supplier information	Refer to Manufacturer
Emergency phone number	INFOTRAC - (800) 535-5053 (Within Continental US); (352) 323-3500 (Outside US)

2. Hazard(s) Identification

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Physical hazards	This mixture does not meet the classification criteria according to OSHA Hazcom 2012.
Health hazards	Reproductive toxicity - Category 2
Environmental hazards	Not currently regulated by OSHA, refer to Section 12 for additional information. Contains material that may be harmful in the environment.
OSHA defined hazards	This mixture does not meet the classification criteria according to OSHA Hazcom 2012.

Label elements



Signal Word	WARNING!
Hazard statement(s)	Suspected of damaging fertility.
Precautionary statement(s)	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local regulation.
Hazard(s) not otherwise Classified (HNOC)	No OSHA defined hazard classes. Other hazards which do not result in classification: Toxic fumes, gases or vapors may evolve on burning. May cause mild respiratory irritation at higher temperatures. Inhalation of fumes may result in metal fume fever, a flu-like illness. Direct skin contact may cause slight or mild, transient irritation. Direct eye contact may cause slight or mild, transient irritation. May cause gastrointestinal irritation. When heated above 150°C in air, may release formaldehyde gas.
Supplemental Information	Not applicable.

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3. Composition/information on ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	Concentration (%)
Aluminum oxide	Aluminum trioxide	1344-28-1	70.0 - 80.0
Zinc oxide	Zinc monoxide	1314-13-2	7.0 - 13.0
Octamethylcyclotetrasiloxane	Cyclodimethicone	556-67-2	0.1 - 0.3

The following ingredient may be released from the product only when heated above 150°C:

Formaldehyde	Methanal Methyl aldehyde Methylene oxide	50-00-0	Not known.
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The exact concentrations of the above listed chemicals are being withheld as a trade secret.

4. First-aid measures

Inhalation

If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. IF exposed or concerned: Get medical attention/advice.

Skin contact

For skin contact, wash with soap and water while removing contaminated clothing. Get medical attention if irritation develops and persists.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical attention/advice.

Most important symptoms and effects, both acute and delayed

May cause mild respiratory irritation at higher temperatures. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. If dusts are formed and exposure occurs: Symptoms may include coughing, mucous production and difficulty breathing. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath. Direct eye contact may cause slight or mild, transient irritation. Symptoms may include stinging and tearing.

Direct skin contact may cause slight or mild, transient irritation. May cause irritation, redness and pain. If material is ingested, may cause irritation to mucous membranes. May cause nausea, vomiting, and diarrhea.

Suspected of damaging fertility. Symptoms may include reductions in mean live litter sizes and mean number of pups born.

When heated above 150°C in air, may release formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde may cause sensitisation by skin contact. Formaldehyde has shown limited evidence of a carcinogenic effect.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General Information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

Toxic fumes may be released during a fire. The pressure in sealed containers can increase under the influence of heat. When heated above 150°C in air, may release formaldehyde gas.

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Special protective equipment and precautions for fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.
Fire-fighting equipment/instructions	Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Not classified as flammable.
Hazardous combustion products	Carbon oxides; Metal oxides.; formaldehyde; Silicon oxides.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.
Methods and materials for containment and cleaning up	Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Cover any spilled material with non-combustible absorbent material, such as vermiculite or sand, then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.
Environmental precautions	Prevent product from entering drains, sewers, waterways and soil.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Wash thoroughly after handling. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities	Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10).

8. Exposure controls/personal protection

Occupational exposure limits

U.S. OSHA Exposure Limits (29 CFR 1910)

	Type	Value
Aluminum oxide (CAS 1344-28-1)	TWA	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m ³ (fume); 15 mg/m ³ (total dust); 5 mg/m ³ (respirable)
Formaldehyde (CAS 50-00-0)	STEL	2 ppm
	TWA	0.75 ppm

US. ACGIH Threshold Limit Values

	Type	Value
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Aluminum oxide (CAS 1344-28-1)	TWA	1 mg/m ³ (respirable)
Zinc oxide (CAS 1314-13-2)	TWA	10 mg/m ³ (respirable) 2 mg/m ³ (respirable)
Formaldehyde (CAS 50-00-0)	Ceiling	0.3 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

	Type	Value
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m ³ (fume)
	TWA	5 mg/m ³ (dust and fume)
	Ceiling	15 mg/m ³ (dust)
Formaldehyde (CAS 50-00-0)	TWA	0.016 ppm
	Ceiling	0.1 ppm (15 min)

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. In case of insufficient ventilation wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Eye / face protection

Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side-shields. A full face shield may also be necessary.

Skin protection

Hand protection

Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Advice should be sought from glove suppliers. Wear sufficient clothing to prevent skin contact.

Other

Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

Respiratory protection

If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29CFR 1910.134). Advice should be sought from respiratory protection specialists.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Avoid breathing dust, fume or vapors. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical state	gel
Form	Dispensable.
Color	white

Odor None.

Odor threshold N/Av

pH N/Av

Melting point /freezing point N/Av

Initial boiling point and boiling range

N/Av

Flash point > 93.3°C (200°F)

N/Av

Evaporation rate N/Av

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Flammability (solid, gas) Not applicable.

Lower flammability/explosive limit N/Av

Upper flammability/explosive limit N/Av

Vapor pressure N/Av

Vapor density N/Av

Relative density 2.7

Solubility(ies)

Other solubility(ies) N/Av

Solubility (water) Insoluble.

Partition coefficient (n-octanol/water) N/Av

Auto-ignition temperature N/Av

Decomposition temperature N/Av

Viscosity N/Av

Other information

Explosive properties Not explosive

Oxidizing properties None known.

Specific gravity 2.7

VOC N/Av

Volatilities % negligible

Other physical/chemical data No additional information.

10. Stability and reactivity

Reactivity Not normally reactive.

Chemical stability Stable under normal conditions. When heated above 150°C in air, may release formaldehyde gas.

Possibility of hazardous reactions Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

Conditions to avoid Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.

Incompatible materials Strong oxidizing agents; Strong acids; Halogenated compounds

Hazardous decomposition products None known, refer to hazardous combustion products in Section 5.

11. Toxicological information

Information on likely routes of exposure

Routes of entry inhalation May cause mild respiratory irritation at higher temperatures. Inhalation of fumes may result in metal fume fever, a flu-like illness.

Routes of entry skin & eye Causes little or no irritation.

Routes of entry Ingestion May cause gastrointestinal irritation.

Routes of exposure skin absorption Not expected to be absorbed through the skin.



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Most important symptoms/effects, acute and delayed

May cause mild respiratory irritation at higher temperatures. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. If dusts are formed and exposure occurs: Symptoms may include coughing, mucous production and difficulty breathing. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath. Direct eye contact may cause slight or mild, transient irritation. Symptoms may include stinging and tearing. Direct skin contact may cause slight or mild, transient irritation. May cause irritation, redness and pain. If material is ingested, may cause irritation to mucous membranes. May cause nausea, vomiting, and diarrhea. Suspected of damaging fertility. Symptoms may include reductions in mean live litter sizes and mean number of pups born. When heated above 150°C in air, may release formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant. Formaldehyde may cause sensitisation by skin contact. Formaldehyde has shown limited evidence of a carcinogenic effect.

Information on toxicological effects

Acute toxicity

Not expected to be hazardous by OSHA criteria. There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Components	Species	Test Results
Aluminum oxide		
Acute		
<i>Dermal</i>		
LD50	Rabbit	N/Av
<i>Inhalation</i>		
LC50	Rat	>2.3 mg/L (dust) (no deaths)
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg (No mortality)
Zinc oxide		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg (No mortality)
<i>Inhalation</i>		
LC50	Rat	> 5.7 mg/L (dust) (No mortality)
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Octamethylcyclotetrasiloxane		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2400 mg/kg (No mortality)
<i>Inhalation</i>		
LC50	Rat	36 mg/L (aerosol)
<i>Oral</i>		
LD50	Rat	> 4800 mg/kg

The following ingredient may be released from the product only when heated above 150°C:

Formaldehyde

Acute

Dermal

LD50 Rabbit 300 mg/kg

Inhalation

LC50 Rat 287 ppm

Oral



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LD50

Rat

800 mg/kg (rat)

The estimated human lethal dose is: 317 - 475 mg/kg

Skin Corrosion/Irritation

Not expected to be hazardous by OSHA criteria.

Serious eye damage/Irritation

Not expected to be hazardous by OSHA criteria.

Respiratory or skin sensitization

Not expected to be a skin or respiratory sensitizer.

Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde may cause sensitisation by skin contact.

Germ cell mutagenicity

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

Carcinogenicity

No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde has shown limited evidence of a carcinogenic effect.

See below for ingredients present on regulatory lists.

IARC Monographs. Overall Evaluation of Carcinogenicity

Formaldehyde(CAS 50-00-0)

Group 1 (Carcinogenic to Humans)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Formaldehyde(CAS 50-00-0)

Present

US National Toxicology Program(NTP) Report on Carcinogens

Formaldehyde(CAS 50-00-0)

Group 2

Reproductive toxicity

Hazardous by OSHA criteria. Classification:

Reproductive toxicity - Category 2. Suspected of damaging fertility.

Contains Octamethylcyclotetrasiloxane. Octamethylcyclotetrasiloxane may cause adverse reproductive effects.

Specific target organ toxicity - single exposure

Not expected to be hazardous by OSHA criteria.

Specific target organ toxicity - repeated exposure

Not expected to be hazardous by OSHA criteria.

Chronic effects

If dusts are formed, inhalation may cause adverse lung effects. Repeated or prolonged inhalation of fine dusts may cause an increase in mucous production.

Aspiration toxicity

Not expected to be hazardous by OSHA criteria.

Further information

Avoid heating, which will result in the liberation of formaldehyde gas. Formaldehyde is an eye and throat irritant and acute toxicant.

12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects. The product contains the following substances which are hazardous for the environment: Zinc oxide; Octamethylcyclotetrasiloxane.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Aluminum oxide	1344-28-1	> 100 mg/L (Brown trout)	N/Av	None.
Zinc oxide	1314-13-2	1.1 mg/L (Rainbow trout)	N/Av	None.
Formaldehyde	50-00-0	6.7 mg/L (striped bass)	≥ 48 mg/L/28-day (Japanese ricefish)	None.
Octamethylcyclotetrasiloxane	556-67-2	> 500 mg/L (Zebra fish)	N/Av	None.

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Ingredients	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Aluminum oxide	1344-28-1	> 100 mg/L (Daphnia magna)	N/Av	None.
Zinc oxide	1314-13-2	0.098 mg/L (Daphnia magna)	N/Av	10
Formaldehyde	50-00-0	5.8 mg/L (Daphnia magna)	N/Av	None.
Octamethylcyclotetrasiloxane	556-67-2	25.2 mg/L/24hr (Daphnia magna)	N/Av	None.

Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Aluminum oxide	1344-28-1	> 100 mg/L/72hr (Green algae)	N/Av	None.
Zinc oxide	1314-13-2	0.044 mg/L/72hr (Green algae)	N/Av	10
Formaldehyde	50-00-0	14.7 mg/L/24hr (Green algae)	N/Av	None.
Octamethylcyclotetrasiloxane	556-67-2	N/Av	N/Av	None.

Persistence and degradability

No data is available on the product itself. Contains the following chemicals which are not readily biodegradable: Zinc oxide; Aluminium oxide; Octamethylcyclotetrasiloxane.
 Note: Octamethylcyclotetrasiloxane has a half life in sediment of > 728 days (Canadian Environmental Protection Agency). Octamethylcyclotetrasiloxane has a half-life in water of 37.5 days (Canadian Environmental Protection Agency).

Bioaccumulation potential

The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Zinc oxide (CAS 1314-13-2)	1.53 (estimated)	N/Av
Formaldehyde (CAS 50-00-0)	0.35	3
Octamethylcyclotetrasiloxane (CAS 556-67-2)	6.49	12 400 (steady-state) (Fathead minnow) 13 400 (kinetic) (Fathead minnow)

Mobility in soil

The product itself has not been tested.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal consideration

Disposal instructions

Handle waste according to recommendations in Section 7. Do not allow this material to drain into sewers/water supplies.

Local disposal regulations

Dispose in accordance with all applicable federal, state, territory and local regulations.

Hazardous waste code

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

US RCRA Hazardous Waste U List: Reference

<u>Components</u>	<u>RCRA Waste number</u>
Formaldehyde (CAS 50-00-0)	U122

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Waste from residues / unused products Dispose of contents/container in accordance with local regulation. This material and its container must be disposed of in a safe way.

Contaminated packaging Empty containers should be taken for local recycling or waste disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

49CFR/DOT

Not regulated unless shipping internationally by sea or air. Refer to IMDG or IATA information for international sea or air shipments, as appropriate.

ICAO/IATA



UN Number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide)
Transport hazard class(es)	
Class	9
Subsidiary ris	none
Packaging group	III
Environmental hazards	Yes
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.
Other information	
Passenger and cargo aircraft	Allowed
Cargo aircraft only	Allowed

IMDG



UN Number	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc oxide)
Transport hazard class(es)	
Class	9
Subsidiary ris	none
Packaging group	III
Environmental hazards	Yes
Marine pollutant	Yes
EmS	F-A S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

General information Appropriate advice on safety must accompany the package. Avoid release to the environment. This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Aluminum oxide	1344-28-1	Yes	None.	None.	Yes	1%
Zinc oxide	1314-13-2	Yes	None.	None.	No	N/Ap
Formaldehyde	50-00-0	Yes	100 lbs / 45.4 kg	500 lb TPQ	Yes	0.1%
Octamethylcyclotetrasiloxane	556-67-2	Yes	None.	None.	No	N/Ap

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard -	Yes
	Delayed Hazard -	Yes
	Fire Hazard -	NO
	Pressure Hazard -	NO
	Reactivity Hazard -	NO

US state regulations

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Aluminum oxide	1344-28-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Zinc oxide	1314-13-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Formaldehyde	50-00-0	Yes	Cancer (gas)	Yes	Yes	Yes	Yes	Yes	Yes
Octamethylcyclotetrasiloxane	556-67-2	No	N/Ap	No	No	No	No	No	No

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Inventories

Components listed below are present on the following International Inventory lists:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECS	NewZealand IOC
Aluminum oxide	1344-28-1	215-691-6	Present	Present	(1)-23	KE-01012	Present	May be used as a single component chemical under an appropriate group standard
Zinc oxide	1314-13-2	215-222-5	Present	Present	(1)-561	KE-35565	Present	HSR003104
Formaldehyde	50-00-0	200-001-8	Present	Present	(2)-482	KE-17074	Present	HSR001584, HSR001162, HSR001518, HSR001583 (dilution)
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	Present	Present	(7)-475	KE-26606	Present	HSR003225

Material name: THERM-A-GAP™ GEL 8010 (XTS-8010)

SDS US

SDS No. PHC-159 Version #: 1 Issue date: 05-20-2015

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16. Other information, including date of preparation or last revision

Issue date	05/20/2015
Version #	1
Legend	ACGIH: American Conference of Governmental Industrial Hygienists AICS: Australian Inventory of Chemical Substances CA: California CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation EC50: Effective Concentration 50%. EINECS: European Inventory of Existing Commercial chemical Substances ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer IBC: Intermediate Bulk Container IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods IOC: Inventory of Chemicals KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List LC: Lethal Concentration LD: Lethal Dose MA: Massachusetts MN: Minnesota N/Ap: Not Applicable N/Av: Not Available NIOSH: National Institute of Occupational Safety and Health NJ: New Jersey NOEC: No observable effect concentration NTP: National Toxicology Program OECD: Organisation for Economic Co-operation and Development OSHA: Occupational Safety and Health Administration PA: Pennsylvania PEL: Permissible exposure limit PICCS: Philippine Inventory of Chemicals and Chemical Substances RCRA: Resource Conservation and Recovery Act RI: Rhode Island RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System

Other special considerations for handling

- : Provide adequate information, instruction and training for operators.

Disclaimer

Prepared by: ICC The Compliance Center Inc.
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Bibliography

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4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - March 2015 version.
6. California Proposition 65 List - May 11, 2015 version.
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.