

Safety Data Sheet

Material Name: PG-Flex Component B

Product #: 331333
Component B

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name: PG-Flex Component B

Chemical Family: Epoxy

Product Use: Coating

Restrictions on Use: For industrial use only

Manufacturer Information

Hardcast A Carlisle Company
900 Hensley Lane
Wylie, TX 75098
www.carlislehvac.com

Phone Numbers:

Medical Emergency
CHEMTREC (USA): 800-424-9300

SDS Assistance: 972-442-6545
Technical Assistance: 888-229-2199
Customer Service: 888-229-0199

Section 2 - HAZARDS IDENTIFICATION

Physical hazards

Not classified

Health hazards

Skin Corrosion/irritation – Category 1

Serious eye damage/eye irritation – Category 1

Sensitization, skin – Category 1

Reproductive toxicity – Category 2

Specific target organ , single exposure – Category 1

Specific target organ , REPEATED – Category 1

Environmental hazards

Not classified

OSHA defined hazards

Not classified

GHS Label Elements



GHS07 Harmful



GHS08 Health Hazard

Signal Word

Danger



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Hazard Statement(s)

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Specific treatment see Section 4 of this SDS. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage

Store locked up. Store in accordance with local/regional/national regulations.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None applicable.

Supplemental information

Not applicable.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization

Mixtures

Description

Mixture of the substances listed below with nonhazardous additions

Chemical name	CAS number	Percent
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	90-72-2	30 – 50
4-METHYL-2-PENTANONE	108-10-1	30 – 50
Other components below reportable levels	20.66409	

Section 4 - FIRST AID MEASURES

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact



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Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Eye contact

Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Ingestion

Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

Most Important Symptoms/Effects, both acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

General Information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

Special Hazards Arising from the Chemical

During fire, gases hazardous to health may be formed.

Special Protective Equipment and Precautions for Firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting Equipment/Instructions

Move containers from fire area if you can do so without risk.

Specific Methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and Materials for Containment and Cleaning Up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

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Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Conditions for safe storage, including any incompatibilities

Avoid prolonged exposure. Observe good industrial hygiene practices. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
4-METHYL-2-PENTANONE (CAS 108-10-1)	PEL	410 mg/m ³ 100 ppm
4-METHYL-2-PENTANONE (CAS 108-10-1)	STEL TWA	75 ppm 20 ppm
4-METHYL-2-PENTANONE (CAS 108-10-1)	STEL TWA	300 mg/m ³ 75 ppm 205 mg/m ³ 50 ppm

Biological Limit Values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen
4-METHYL-2-PENTANONE (CAS 108-10-1)	1 mg/l	Methyl isobutyl ketone	Urine

Appropriate Engineering Controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand Protection

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

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Other

Wear suitable protective clothing.

Respiratory Protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal Hazards

Wear appropriate thermal protective clothing, when necessary.

General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue	Physical state	Liquid
Form	Liquid	Color	Blue
Odor	Not available	Odor threshold	Not available
pH	Not available	Melting point/freezing point	-119.2°F (-84°C) estimated
Initial boiling point and boiling range	241.7°F (116.5°C) estimated	Flash point	> 212.0°F (> 100.0°C) estimated
Evaporation rate	Not available	Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limits			
Flammability limit upper (%)	12% estimated	Explosive limit - lower (%)	10% estimated
Explosive limit – upper (%)	Not available	Vapor Pressure	Not available
Vapor Density	Not available	Relative Density	Not available
Solubility(ies) Solubility (water)	Not available	Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	840°F (448.89°C) estimated	Decomposition temperature	Not available
Viscosity	Not available	VOC	< 5 gms/liter
Other Information			
Density	8.43 lb/gal	Specific Gravity	1.01 estimated

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Section 10 - STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability

Material is stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerizations does not occur.

Conditions to Avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

No hazardous decomposition products are known.

Section 11 - TOXICOLOGICAL INFORMATION

Information likely routes of exposure

Ingestion

May be harmful if swallowed.

Inhalation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Contact

Causes skin burns.

Eye Contact

Causes eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components	Species Test	Results
Acute		
Dermal LD50	Rabbit	> 16000 mg/kg
Inhalation LC50	Rat	8.2 mg/l, 4 Hours
Oral LD50	Rat	2080 mg/kg

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

Skin corrosion/irritation

Causes skin burns and eye damage.

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Serious eye damage/eye irritation

Causes eye damage.

Respiratory or skin sensitization

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization

May cause allergic skin disorders in sensitive individuals. This chemical may cause skin/eye irritation and burns.

Germ cell mutagenicity

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

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

IARC Monographs. Overall Evaluation of Carcinogenicity

4-METHYL-2-PENTANONE (CAS 108-10-1) 2B Possibly carcinogenic to humans.

US.OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Specific target organ toxicity – single exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not available.

Chronic effects

Prolonged inhalation may be harmful.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

The product contains a substance which is toxic to aquatic organisms.

Product	Species	Test Results
2100 Series Part A Coating and Lining (All Colors) (CAS Mixture)		
Aquatic		
Fish	LC50	Fish
		1266.2737 mg/l, 96 hours estimated

Components	Species Test	Test Results
4-METHYL-2-PENTANONE (CAS 108-10-1)		
Aquatic		
Fish	LC50	Flathead minnow (Pimephales promelas)
		492 - 593 mg/l, 96 hours

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

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

4-METHYL-2-PENTANONE 1.31

Mobility in soil

No data available.

Other adverse effects



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

Section 13 - DISPOSAL CONSIDERATIONS

Disposal instructions

When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14 - TRANSPORT INFORMATION

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

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

Not available.

IMDG Marine pollutant

Section 15 - REGULATORY INFORMATION

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

4-METHYL-2-PENTANONE

Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910,1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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Hazard categories

Immediate Hazard – Yes
Delayed Hazard – Yes
Fire Hazard – Yes
Pressure Hazard – No
Reactivity Hazard – No

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 No

SARA 313 (TRI reporting)

<u>Chemical name</u>	<u>CAS number</u>	<u>% by wt.</u>
4-METHYL-2-PENTANONE	108-10-1	39.67

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

4-METHYL-2-PENTANONE (CAS 108-10-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.



WARNING: This product can expose you to chemicals including 4-methyl-2-pentanone, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

4-METHYL-2-PENTANONE (CAS 108-10-1) Listed: November 4, 2011

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

4-METHYL-2-PENTANONE (CAS 108-10-1)

Section 16 - OTHER INFORMATION

Summary of Changes

Revision Date: June 1, 2018

Revision Note: General Update

NFPA Ratings

Health: 3 Flammability: 1 Instability: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL -



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Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.