

60139 Telephone: (630) 825-7900

Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30

Page 1 of 14

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: Red Head® C6+, Part A

Product Code(s) : C6P-15; C6P-30

Recommended use of the chemical and restrictions on use

: Resin component of a two part epoxy adhesive. For use in a wide range of threaded bar or

rebar applications.

No restrictions on use known.

Chemical family : Mixture of: Epoxy resin; Inorganic filler; Polymer

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

ITW Commercial Construction North America

700 High Grove Road Glendale Heights, IL, USA

60139

Information Telephone # : (630) 825-7900

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside

U.S.).

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Pasty liquid. Light grey. Slight epoxy odor.

Most important hazards:

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Contains material that may cause adverse reproductive effects. Contains a substance which may damage genetic material. Corrosive to the respiratory tract. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS. Toxic to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

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

Skin corrosion/irritation - Category 1C

Eye damage/irritation - Category 1

Skin sensitization - Category 1

Germ cell mutagenicity - Category 2

Reproductive toxicity - Category 1B

Hazards Not Otherwise Classified (HNOC) / Health Hazards Not Otherwise Classified - Category 1

Label elements

Hazard pictogram(s)







Signal Word

DANGER!

Hazard statement(s)

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May damage fertility or the unborn child. Corrosive to the respiratory tract.



Telephone: (630) 825-7900

Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30

Page 2 of 14

SAFETY DATA SHEET

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mist. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection.

Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification:

Toxic fumes may be released during a fire. Contact with water will generate considerable heat. Excessive heating above 50°C / 122°F may degrade the resin component. May polymerize when heated or on contact with incompatible materials. Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract. Prolonged overexposure may cause slight liver effects, such as increased organ weights.

Environmental precautions:

Toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Avoid release to the environment. See Section 12 for more environmental information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Synonyms</u>	CAS#	Concentration
Crystalline silica, quartz	Quartz silica Crystallized silicon dioxide	14808-60-7	50.0 - 65.0
Reaction product of Epichlorohydrin and Bisphenol A	Homopolymers of Diglycidyl ether of bisphenol A (DGEBPA) Diglycidyl ether of bisphenol A-based epoxy resin	25085-99-8	15.0 - 25.0
Bisphenol F / epichlorohydrin based resin	Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4	7.0 - 13.0
Trimethylolpropane-epichlorohydrin copolymer	1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane	30499-70-8	7.0 - 13.0
Ceramic materials and wares, chemicals	Calcined clay	66402-68-4	5.0 - 10.0
titanium dioxide	Anatase Titanic acid anhydride	13463-67-7	0.5 - 1.5

The exact concentrations of the above listed chemicals are being withheld as a trade secret as allowed by 29CFR1910.1200.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion

: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person.



60139 Telephone: (630) 825-7900

Red Head® C6+, Part A Product Code(s): C6P-15; C6P-30

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Page 3 of 14

SAFETY DATA SHEET

Inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is

difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial

respiration. Immediately call a POISON CENTER or doctor/physician.

Skin contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. Flush with large amounts of water for 15 minutes. Immediately call a POISON

CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Flush eyes with water for at least 20 minutes. Protect unharmed eye. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

: Causes severe skin burns and eye damage. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Symptoms may include severe pain, blurred vision, redness and corrosive damage.

Corrosive to the respiratory tract. May produce irritation, burning, or destruction of tissues in the respiratory tract, characterized by coughing, choking, pain, or shortness of breath. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.

Suspected of causing genetic defects.

May damage fertility or the unborn child. Symptoms may include longer gestation, and

failure to achieve pregnancy.

May cause severe irritation and corrosive damage in the mouth, throat and stomach.

Symptoms may include severe abdominal pain, vomiting, burns and bleeding. Prolonged overexposure may cause slight liver effects, such as increased organ weights.

Indication of any immediate medical attention and special treatment needed

: Immediate medical attention is required. Causes burns.
Provide general supportive measures and treat symptomatically.
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.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam

Unsuitable extinguishing media

 Do not use a solid water stream as it may scatter and spread fire. Use water spray with caution.

Special hazards arising from the substance or mixture

Not considered flammable. However, may burn if exposed to extreme heat and flame. Contact with water will generate considerable heat. May polymerize when heated or on contact with incompatible materials. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes may be released during a fire.

Flammability classification (OSHA 29 CFR 1910.106)

: Not classified as flammable.

Hazardous combustion products

: Carbon oxides; Phenols; Aldehydes; Acids; Other unidentified organic compounds

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



Telephone: (630) 825-7900

Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30 Page 4 of 14

SAFETY DATA SHEET

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not get water inside containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate personal protective equipment. 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.

Environmental precautions

Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.
Refer to Section 13 for disposal of contaminated material.

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): None known.

SECTION 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.

Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

Use with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe dust or mist. Avoid contact with skin, eyes and clothing. Processing (such as welding, grinding, and machining) may result in the formation of fumes, dust, and/or particulate. Avoid and control operations which create high vapor or dust concentrations. Keep away from extreme heat and direct flame. Keep away from incompatibles. Protect from moisture. Keep container tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapor) and can be dangerous. Contaminated work clothing must not be allowed out of the workplace.

Conditions for safe storage

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).

Incompatible materials : Strong oxidizing agents; Acids; Bases; Amines



60139 Telephone: (630) 825-7900

Red Head® C6+, Part A Product Cod

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30 Page 5 of 14

SAFETY DATA SHEET

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGI	<u>ITLV</u>	OSHA I	<u>PEL</u>
	<u>TWA</u>	STEL	<u>PEL</u>	STEL
Crystalline silica, quartz	0.025 mg/m³ (respirable)	N/Av	0.1 mg/m³ (respirable) (final rule limit)	N/Av
Reaction product of Epichlorohydrin and Bisphenol A	N/Av	N/Av	N/Av	N/Av
Bisphenol F / epichlorohydrin based resin	N/Av	N/Av	N/Av	N/Av
Trimethylolpropane-epichlorohydri n copolymer	N/Av	N/Av	N/Av	N/Av
Ceramic materials and wares, chemicals	N/Av	N/Av	N/Av	N/Av
itanium dioxide	10 mg/m³	N/Av	15 mg/m³ (total dust)	N/Av

Exposure controls

Ventilation and engineering measures

: Use with adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

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 (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

Skin protection

: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact.

Eye / face protection

Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.

Other protective equipment

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

General hygiene considerations

Do not breathe dust or mist. 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. Contaminated work clothing must not be allowed out of the workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Pasty liquid. Light grey
Odor : Slight epoxy odor.

Odor threshold : N/Av
pH : N/Av
Melting/Freezing point : N/Av
Initial boiling point and boiling range

: > 200°C (392°F)

Flash point : > 100°C (212°F)

Flashpoint (Method) : N/Av



ITW Commercial Construction North America 700 High Grove Road

Glendale Heights, IL, USA 60139

Telephone: (630) 825-7900

Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30

Page 6 of 14

SAFETY DATA SHEET

Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

: N/Av

Upper flammable limit (% by vol.)

: N/Av

Oxidizing properties : None known. Explosive properties : Not explosive

Vapor pressure:N/AvVapor density:N/AvRelative density:1.6Solubility in water:N/AvOther solubility(ies):N/AvPartition coefficient: n-octanol/water

Volatile organic Compounds (VOC's)

: N/Av

Absolute pressure of container

: N/Ap

Flame projection length : N/Ap

Other physical/chemical comments

: No additional information.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive. Contact with water will generate considerable heat.

Chemical stability : Stable under normal conditions. Excessive heating above 50°C / 122°F may degrade the

resin component.

Possibility of hazardous reactions

: May polymerize when heated or on contact with incompatible materials.

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; Acids; Bases; Amines

Hazardous decomposition products

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

SECTION 11. TOXICOLOGICAL INFORMATION

<u>Information on likely routes of exposure:</u>

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption

: NO



60139 Telephone: (630) 825-7900

Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30

Page 7 of 14

SAFETY DATA SHEET

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Corrosive to the respiratory tract. May produce irritation, burning, or destruction of tissues in the respiratory tract, characterized by coughing, choking, pain, or shortness of breath.

Sign and symptoms ingestion

: May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, vomiting, burns and bleeding.

Sign and symptoms skin

Causes severe skin burns. Direct skin contact may cause corrosive skin burns, deep

ulcerations and possibly permanent scarring.

Sign and symptoms eyes

Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness

and corrosive damage.

Potential Chronic Health Effects

Prolonged overexposure may cause slight liver effects, such as increased organ weights.

Chronic skin contact with low concentrations may cause dermatitis.

Mutagenicity

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

(Hazcom 2012). Classification:

Germ cell mutagenicity - Category 2. Suspected of causing genetic defects.

Contains: Trimethylolpropane-epichlorohydrin copolymer.

Trimethylolpropane-epichlorohydrin copolymer was positive and negative in In Vitro Mammalian Chromosome Aberration Tests; positive in the In Vitro Mammalian Cell Forward Gene Mutation test; and was positive for mutagenic responses in the Bacterial Reverse

Mutation test.

Carcinogenicity

Not classifiable as a human carcinogen.

Contains: Crystalline silica, quartz; titanium dioxide.

Crystalline silica is classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2) and the NTP (Group 1 - Known human carcinogen). However, Crystalline silica is listed as causing cancer only when it's particles are airborne and of a respirable size. Airborne respirable particles are not expected for this product, based on the intended use and form of

the product as a whole.

Titanium dioxide is classified as possibly carcinogenic by IARC (Group 2B). However, the Titanium dioxide used in this product is in a non-respirable form and under normal conditions of use. Titanium dioxide cannot become airbourne. The carcinogenic effects of

Titanium dioxide are therefore not applicable to this product.

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

Reproductive toxicity - Category 1B. May damage fertility or the unborn child.

Contains: Trimethylolpropane-epichlorohydrin copolymer. Symptoms may include longer

gestation, and failure to achieve pregnancy.

Senitization to material

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

(Hazcom 2012). Classification:

Skin sensitization - Category 1. May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. No data available to indicate product or components may be respiratory sensitizers.

Specific target organ effects

According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200)

(Hazcom 2012), this product is not expected to cause target organ toxicity through single or

repeated exposures.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.



> 60139 Telephone: (630) 825-7900

Red Head® C6+, Part A Product Code(s): C6P-15; C6P-30

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Page 8 of 14

SAFETY DATA SHEET

Toxicological data

: No data is available on the product itself. The calculated ATE values for this mixture are:

ATE oral = 13,259 mg/kg ATE dermal = 22,758 mg/kg

See below for individual ingredient acute toxicity data.

	LC ₅₀ (4hr)	LD50			
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)		
Crystalline silica, quartz	N/Av	N/Av	N/Av		
Reaction product of Epichlorohydrin and Bisphenol A	N/Av	11 400 mg/kg	> 23 500 mg/kg		
Bisphenol F / epichlorohydrin based resin	N/Av	> 2000 mg/kg	> 2000 mg/kg		
Trimethylolpropane-epichloroh ydrin copolymer	N/Av	3398 mg/kg	> 3170 mg/kg (No mortality)		
Ceramic materials and wares, chemicals	> 2.3 mg/L (aerosol) (No mortality)	> 2000 mg/kg (No mortality)	> 2500 mg/kg (No mortality)		
titanium dioxide	> 6.82 mg/kg (dust) (No mortality)	> 25 000 mg/kg	> 10 000 mg/kg		

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Reaction product: bisphenol-A-(epichlorohydrin); Bisphenol F / epichlorohydrin based resin; Trimethylolpropane-epichlorohydrin copolymer.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:					
			Toxicity to Fish		
Ingredients	CAS No	LC50 / 96h	NOEC / 21 day	M Factor	
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.	
Reaction product of Epichlorohydrin and Bisphenol A	25085-99-8	3.6 mg/L (Rainbow trout) (Read-across)	N/Av	None.	
Bisphenol F / epichlorohydrin based resin	28064-14-4	1.5 mg/L	N/Av	None.	
Trimethylolpropane-epichlorohydr in copolymer	30499-70-8	75 mg/L (common carp)	N/Av	None.	
Ceramic materials and wares, chemicals	66402-68-4	50.6 mg/L (Rainbow trout) (Read-across)	4.7 mg/L/28-day (Fathead minnow) (Read-across)	None.	
titanium dioxide	13463-67-7	> 100 mg/L (Japanese ricefish)	N/Av	None.	



SDS Preparation Date (mm/dd/yyyy): 04/21/2017

ITW Commercial Construction North America 700 High Grove Road Glendale Heights, IL, USA 60139

Telephone: (630) 825-7900

Product Code(s): C6P-15; C6P-30

Red Head® C6+, Part A

Page 9 of 14

SAFETY DATA SHEET

Ingredients	CAS No	Toxicity to Daphnia				
iligiedielits	CAS NO	EC50 / 48h	NOEC / 21 day	M Factor		
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.		
Reaction product of Epichlorohydrin and Bisphenol A	25085-99-8	1.1 - 2.8mg/L Daphnia magna (Water flea) (Read-across)	0.3 mg/L	None.		
Bisphenol F / epichlorohydrin based resin	28064-14-4	1.7 mg/L (Daphnia magna)	0.3 mg/L	None.		
Trimethylolpropane-epichlorohydrin copolymer	30499-70-8	3.7 mg/L (Daphnia magna)	N/Av	None.		
Ceramic materials and wares, chemicals	66402-68-4	49.1 mg/L (Daphnia magna) (Read-across)	1.89 mg/L/28-day (Read-across)	None.		
titanium dioxide	13463-67-7	> 100 mg/L (Daphnia magna)	N/Av	None.		

Ingredients	CAS No	S No Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.		
Reaction product of Epichlorohydrin and Bisphenol A	25085-99-8	9.4 mg/L/72hr (Green algae)	2.8 mg/L/72hr (Read-across)	None.		
Bisphenol F / epichlorohydrin based resin	28064-14-4	9.4 mg/L/72hr (Green algae)	N/Av	None.		
Trimethylolpropane-epichlorohydrin copolymer	30499-70-8	9 mg/L/72hr (Green algae)	2.5 mg/L/72hr	None.		
Ceramic materials and wares, chemicals	66402-68-4	184.57 mg/L/72hr (Green algae) (Read-across)	48 mg/L/72hr (Read-across)	None.		
titanium dioxide	13463-67-7	> 100 mg/L/72hr (Green algae)	N/Av	None.		

Persistence and degradability

: The product itself has not been tested.

Contains the following chemicals which are considered to be inherently biodegradable: Trimethylolpropane-epichlorohydrin copolymer

Contains the following chemicals which are not readily biodegradable: Reaction product: bisphenol-A-(epichlorohydrin); Bisphenol F / epichlorohydrin based resin; Crystalline silica, quartz; Ceramic materials and wares, chemicals; titanium dioxide.

Bioaccumulation potential

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

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Crystalline silica, quartz (CAS 14808-60-7)	N/Av	N/Av
Reaction product of Epichlorohydrin and Bisphenol A (CAS 25085-99-8)	3 - 5	31 (QSAR)
Bisphenol F / epichlorohydrin based resin (CAS 28064-14-4)	3.242	31
Trimethylolpropane-epichlorohydr n copolymer (CAS 30499-70-8)	i 0.467 - 3.4	N/Av
Ceramic materials and wares, chemicals (CAS 66402-68-4)	N/Av	N/Av
titanium dioxide (CAS 13463-67-7)	N/Av	N/Av

Mobility in soil

: The product itself has not been tested.



> 60139 Telephone: (630) 825-7900

Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30

Page 10 of 14

SAFETY DATA SHEET

Other Adverse Environmental effects

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

Handling for Disposal

Refer to protective measures listed in sections 7 and 8.

This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations. Empty containers retain residue (liquid and/or vapor) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Methods of Disposal RCRA

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

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1760	CORROSIVE LIQUID, N.O.S. (Trimethylolpropane-epichlorohydrin copolymer)	8	III	
49CFR/DOT Additional information		as Limited Quantity when transported in containers no larger t fer to 49 CFR Section 173.154.	han 5.0 Litres; i	n packages	not exceeding 30 kg
ICAO/IATA	UN1760	Corrosive liquid, n.o.s. (Trimethylolpropane-epichlorohydrin copolymer)	8	III	
ICAO/IATA Additional information	Refer to the app shipping this ma	ropriate Packing Instruction, prior to shipping this material. Retetrial.	view all State ar	d Operator	Variations, prior to
IMDG	UN1760	CORROSIVE LIQUID, N.O.S. (Trimethylolpropane-epichlorohydrin copolymer)	8	III	
IMDG Additional information	30 kg gross mas	as LIMITED QUANTITY when transported in containers no lar ss. ntains marine pollutants.	rger than 1.0 Liti	e, in packag	ges not exceeding

Special precautions for user

 Appropriate advice on safety must accompany the package. Avoid release to the environment.

Environmental hazards

: 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.



Telephone: (630) 825-7900

Red Head® C6+, Part A Product Code(s): C6P-15; C6P-30

Page 11 of 14

SAFETY DATA SHEET

SECTION 15 - REGULATORY INFORMATION

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

US Federal Information:

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

		TSCA	TSCA CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely Hazardous	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS#	Quantity(RQ) (40 CFR 117.302):		Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Crystalline silica, quartz	14808-60-7	Yes	None.	None.	No	N/Ap	
Reaction product of Epichlorohydrin and Bisphenol A	25085-99-8	Yes	None.	None.	No	N/Ap	
Bisphenol F / epichlorohydrin based resin	28064-14-4	Yes	None.	None.	No	N/Ap	
Trimethylolpropane-epichlo rohydrin copolymer	30499-70-8	Yes	None.	None.	No	N/Ap	
Ceramic materials and wares, chemicals	66402-68-4	Yes	None.	None.	No	N/Ap	
titanium dioxide	13463-67-7	Yes	None.	None.	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Health hazards [Skin corrosion; Eye Damage; Skin sensitization; Germ cell mutagenicity; Reproductive toxicity; Hazards Not Otherwise Classified (HNOC) / Health Hazards Not Otherwise Classified]. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

		Californ	ia Proposition 65	State "Right to Know" Lists					
<u>Ingredients</u>	CAS#	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Crystalline silica, quartz	14808-60-7	Yes	Cancer (airborne particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes
titanium dioxide	13463-67-7	Yes	Cancer (airborne, unbound particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes
Reaction product of Epichlorohydrin and Bisphenol A	25085-99-8	No	N/Ap	No	No	No	No	No	No
Bisphenol F / epichlorohydrin based resin	28064-14-4	No	N/Ap	No	No	No	No	No	No
Trimethylolpropane-epichloro hydrin copolymer	30499-70-8	No	N/Ap	No	No	No	No	No	No
Ceramic materials and wares, chemicals	66402-68-4	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).

Canadian National Pollutant Release Inventory (NPRI): This product does not contain any substances listed on the NPRI.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.



Telephone: (630) 825-7900

Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30

Page 12 of 14

SAFETY DATA SHEET

International Information:

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 IECSC	New Zealand IOC
Crystalline silica, quartz	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125
Reaction product of Epichlorohydrin and Bisphenol A	25085-99-8	Not listed	Present	Present	(7)-1279; (7)-1283	KE-24083	Present	HSR003553
Bisphenol F / epichlorohydrin based resin	28064-14-4	Polymer	Present	Present	(7)-1285	KE-28226	Present	May be used as a single component chemical under an appropriate group standard.
Trimethylolpropane-epichl orohydrin copolymer	30499-70-8	Polymer	Present	Present	(7)-343	KE-13842	Present	May be used as a single component chemical under an appropriate group standard.
Ceramic materials and wares, chemicals	66402-68-4	266-340-9	Present	Present	(1)-189	KE-05377	Present	May be used as a single component chemical under an appropriate group standard.
titanium dioxide	13463-67-7	236-675-5	Present	Present	(5)-5225; (1)-558	KE-33900	Present	May be used as a single component chemical under an appropriate group standard.



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Telephone: (630) 825-7900

Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30

Page 13 of 14

SAFETY DATA SHEET

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of

1980

CFR: Code of Federal Regulations 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

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

References

- 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2017.
- 2. International Agency for Research on Cancer Monographs, searched 2017.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists March 2015 version.
- 6. California Proposition 65 List January 27, 2017 version.
- 7. OECD The Global Portal to Information on Chemical Substances eChemPortal, 2017.

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Red Head® C6+, Part A

SDS Preparation Date (mm/dd/yyyy): 04/21/2017

Product Code(s): C6P-15; C6P-30

Page 14 of 14

SAFETY DATA SHEET

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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