



SAFETY DATA SHEET

Issue Date 22-Apr-2015

Revision Date 29-Mar-2019

REVISION NUMBER: 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name DOLPHON CR-1034H

Other means of identification

Product Code CR-1034H

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use No information available.

Uses advised against No information available

Details of the supplier of the safety data sheet

MANUFACTURED BY:

VON ROLL USA, INC.

200 VON ROLL DRIVE

SCHENECTADY, NY 12306

BUSINESS: (518) 344-7100

EMERGENCY: (518) 395-3310 JOHN C. DOLPH, a Von Roll Company

320 New Road, MONMOUTH JUNCTION, NJ 08852

BUSINESS: (732) 329-2333

EMERGENCY: (800) 794-6277

Emergency telephone number

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

Label elements

Emergency Overview

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

**Appearance** No information available**PHYSICAL STATE** Liquid**ODOR** No information available**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF ON SKIN: Wash with plenty of soap and water
 Take off contaminated clothing and wash before reuse
 If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

- Toxic to aquatic life with long lasting effects
- Toxicity Not determined

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	CAS No.	APPROX. WEIGHT PERCENT	TRADE SECRET
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	25068-38-6	30 - 60	*
Hydrophobic Silica 67762-90-7	67762-90-7	1 - 5	
Epichlorohydrin 106-89-8	106-89-8	<5 PPM	
Phenyl Glycidyl Ether 122-60-1	122-60-1	<5 PPM	

4. FIRST AID MEASURES

First aid measures**EYE CONTACT**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.
 Consult a physician.

SKIN CONTACT

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation

Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Special Hazard

May cause sensitization by skin contact.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Wear protective gloves/protective clothing and eye/face protection.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	ACGIH TLV	OSHA PEL-TWA	NIOSH IDLH
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-	-	-
Hydrophobic Silica 67762-90-7	-	PARTICULATES: 15	-
Epichlorohydrin 106-89-8	TWA: 0.5 ppm S*	5	IDLH: 75 ppm
Phenyl Glycidyl Ether 122-60-1	TWA: 0.1 ppm S*	10	IDLH: 100 ppm Ceiling: 1 ppm 15 min Ceiling: 6 mg/m ³ 15 min

Appropriate engineering controls

ENGINEERING CONTROLS: Exhaust ventilation.
Showers.
Eyewash stations.
Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Von Roll recommends evaluation and selection of appropriate engineering controls (such as ventilation and eyewash/safety shower) as well as appropriate personal protective equipment (such as respiratory protection, protective gloves, eye protection) for safely handling this material. The following guidelines should be considered in this process.

EYE PROTECTION: Splash Goggles.

GLOVES: Butyl rubber gloves.

VENTILATION: Use only in well ventilated area. Localized mechanical ventilation.

RESPIRATORY PROTECTION: Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded, or over exposure is likely.

OTHER PERSONAL PROTECTION DATA: Rubber apron or other chemical-resistant apron. Face shield.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

PHYSICAL STATE	Liquid	ODOR:	EPOXY MILD
Appearance	No information available	ODOR THRESHOLD	UNKNOWN
DESCRIPTION:	MILKY	(PPM):	

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	>104 / >220	
EVAPORATION RATE	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
VAPOR PRESSURE	No information available	
VAPOR DENSITY	No information available	

SPECIFIC GRAVITY	1.09
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Other Information

Softening point	No information available
VOC (EPA METH.24) (G/L):	Unknown
DENSITY	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

REACTIVITY

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

CONDITIONS TO AVOID

Keep away from heat, sparks and flame. Temperatures above 85 F.

Incompatible materials

Avoid contact with acidic, basic or oxidizing agents. Do not expose to amines.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide. Toxic fumes. Hydrogen chloride. Oxides of nitrogen. Aldehydes. Organic acid vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

PRODUCT INFORMATION	The product has not been tested
Inhalation	No data available.
EYE CONTACT	Irritating to eyes.
SKIN CONTACT	Irritating to skin. May cause sensitization by skin contact.
Ingestion	No data available.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	= 11400 mg/kg (Rat)	-	-
Hydrophobic Silica 67762-90-7	-	-	-
Epichlorohydrin 106-89-8	= 90 mg/kg (Rat)	= 515 mg/kg (Rabbit)	= 0.95 mg/L (Rat) 4 h

Phenyl Glycidyl Ether 122-60-1	= 2600 mg/kg (Rat) = 3850 mg/kg (Rat)	= 1500 mg/kg (Rabbit) = 1500 µL/kg (Rabbit)	> 100 ppm (Rat) 8 h
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Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin.
Serious eye damage/eye irritation Irritating to eyes.
Sensitization May cause sensitization by skin contact.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	ACGIH	IARC	NTP	OSHA
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-	-	-	-
Hydrophobic Silica 67762-90-7	-	-	-	-
Epichlorohydrin 106-89-8	A3	Group 2A	Reasonably Anticipated	X
Phenyl Glycidyl Ether 122-60-1	A3	Group 2B	-	X

Reproductive toxicity No information available.
STOT - single exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - PRODUCT INFORMATION

Toxicity Not determined
The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 11400 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity**

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Toxicity to Algae	Toxicity to fish	Crustacea
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-	-	-
Hydrophobic Silica 67762-90-7	-	-	-
Epichlorohydrin 106-89-8	-	9.1 - 12.3: 96 h Pimephales promelas mg/L LC50 static 30.5: 96 h Brachydanio rerio mg/L LC50 static 35: 96 h Lepomis macrochirus mg/L LC50 semi-static 35: 96 h Lepomis macrochirus mg/L LC50 static	24: 48 h Daphnia magna mg/L EC50
Phenyl Glycidyl Ether 122-60-1	-	43: 96 h Carassius auratus mg/L LC50 static	-

Persistence and degradability

No information available.

Bioaccumulation

No information available.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Partition coefficient
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-
Hydrophobic Silica 67762-90-7	-
Epichlorohydrin 106-89-8	0.3
Phenyl Glycidyl Ether 122-60-1	-

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	RCRA Classification:	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-	-	-	-
Hydrophobic Silica 67762-90-7	-	-	-	-
Epichlorohydrin 106-89-8	U041	Included in waste stream: K017	-	U041
Phenyl Glycidyl Ether 122-60-1	-	-	-	-

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-	-	-	-
Hydrophobic Silica 67762-90-7	-	-	-	-
Epichlorohydrin 106-89-8	-	-	-	-
Phenyl Glycidyl Ether 122-60-1	-	-	-	-

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	California Hazardous Waste Status
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-
Hydrophobic Silica 67762-90-7	-
Epichlorohydrin 106-89-8	Toxic Ignitable
Phenyl Glycidyl Ether 122-60-1	-

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: RESIN COMPOUND, LIQUID, NOT DOT REGULATED

DOT HAZARD CLASS: NONE

DOT PACKING GROUP: NONE;

DOT LABEL(S): NONE
 UN/NA NUMBER: NONE
 PLACARDS: NONE
 ICAO/IATA: NOT REGULATED
 MARINE POLLUTANT: NONE
 NMFC CLASSIFICATION: CLASS 55

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

ACUTE HEALTH HAZARD	Yes
Chronic Health Hazards:	No
FIRE HAZARD	No
Sudden release of pressure hazard	No
REACTIVE HAZARD	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-	-	-	-
Hydrophobic Silica 67762-90-7	-	-	-	-
Epichlorohydrin 106-89-8	100 lb	-	-	X
Phenyl Glycidyl Ether 122-60-1	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	Hazardous Substances RQs	CERCLA/SARA RQ
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-	-
Hydrophobic Silica 67762-90-7	-	-
Epichlorohydrin 106-89-8	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ
Phenyl Glycidyl Ether 122-60-1	-	-

US State Regulations**CALIFORNIA PROPOSITION 65**

This product contains the following Proposition 65 chemicals

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	CALIFORNIA PROPOSITION 65
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-
Hydrophobic Silica 67762-90-7	-
Epichlorohydrin 106-89-8	Carcinogen, Male Reproductive
Phenyl Glycidyl Ether 122-60-1	Carcinogen

Calp Prop Graphic



Proposition 65 Clear and Reasonable
Warning

WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

U.S. State Right-to-Know Regulations

HAZARDOUS PRODUCT COMPOSITION/CAS NUMBER	New Jersey Right-to-Know List:	MA Right to Know Law:	Pennsylvania Right to Know List
Bisphenol A-Epichlorohydrin Polymer 25068-38-6	-	-	-
Hydrophobic Silica 67762-90-7	-	-	-
Epichlorohydrin 106-89-8	X	X	X
Phenyl Glycidyl Ether 122-60-1	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION**NFPA RATING:**

HEALTH 2 , FLAMMABILITY 1 , INSTABILITY 1

HMIS CLASSIFICATION:

HEALTH *2 , FLAMMABILITY 1 , PHYSICAL HAZARD 1

Prepared By

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Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

*****END OF MSDS*****