

**VALCO CINCINNATI CONSUMER PRODUCTS INC.****SAFETY DATA SHEET****MATERIAL NAME:** VALCO HYLOMAR UNIVERSAL BLUE ( 710XX283, 710XX286, 710XX963)**EMERGENCY TELEPHONE NO.:** CALL INFOTRAC AT 1-800-535-5053**PRODUCT INFORMATION NO.:** (513) 874-6550**DATE ISSUED:** MAY 2015**SECTION I – GENERAL INFORMATION****MANUFACTURER'S NAME:** HYLOMAR LTD**ADDRESS:** CALE LANE, WIGAN, ENGLAND**TRADE NAME & SYNONYMS:** HYLOMAR UNIVERSAL BLUE**DESCRIPTION:** Non-Setting and Non-Hardening Gasketing Compound**SHELF LIFE:** 2 YEARS**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2 (central nervous system, kidney, liver, lung)
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs (central nervous system, kidney, liver, lung) through prolonged or repeated exposure.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wear protective gloves/eye protection/face protection. Wash thoroughly after handling.
<b>Response</b>	If exposed: Call a poison center/doctor. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. 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. Take off contaminated clothing and wash before reuse.
<b>Storage</b>	Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

**SECTION III – INGREDIENTS****MIXTURES**

<b>Chemical name</b>	<b>CAS number</b>	<b>%</b>
Dichlormethane	75-09-2	25-65
<b>Composition comments</b>	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.	

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**SECTION IV – FIRST AID MEASURES**

**4. First-aid measures**

<b>Inhalation</b>	Move into fresh air and keep at rest. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If irritation develops and persists, get medical attention.
<b>Eye contact</b>	Immediately rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention.
<b>Ingestion</b>	Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Drink a few glasses of water or milk. Get medical attention immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapors may cause drowsiness and dizziness.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**SECTION V – FIREFIGHTING MEASURES**

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	By heating and fire, toxic vapors/gases may be formed. Solvent vapors may form explosive mixtures with air.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
<b>Fire-fighting equipment/instructions</b>	Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
<b>General fire hazards</b>	The product is not flammable.

**SECTION VI – ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of vapors/spray and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep out of low areas. Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources. Ventilate the area. Wipe up with absorbent material (e.g. cloth, fleece). Transfer to a container for disposal. Following product recovery, flush area with water.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or onto the ground.

**SECTION VII – HANDLING AND STORAGE**

<b>Precautions for safe handling</b>	Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapors/spray and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid prolonged exposure. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. Avoid release to the environment.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, spark, open flames and other sources of ignition. Store away from incompatible materials. Store locked up. Store in closed original container at temperatures between 5°C and 25°C.

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Components	Type	Value
Dichloromethane (CAS 75-09-2)	STEL	125 ppm

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

Components	Type	Value
	TWA	25 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Dichloromethane (CAS 75-09-2)	TWA	50 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Dichloromethane (CAS 75-09-2)	0.3 mg/l	Dichloromethane	Urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines**

Follow standard monitoring procedures.

**Appropriate engineering controls**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

**Skin protection****Hand protection**

Wear protective gloves. Polyvinyl alcohol gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

**Other**

Normal work clothing (long sleeved shirts and long pants) is recommended.

**Respiratory protection**

In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. 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. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

**Thermal hazards**

Not applicable.

**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 IX – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Blue thixotropic gel.
<b>Physical state</b>	Liquid.
<b>Form</b>	Thixotropic gel.
<b>Color</b>	Blue.
<b>Odor</b>	Sweet.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not applicable.

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<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not applicable.
<b>Flammability limit - upper (%)</b>	Not applicable.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	47 kPa (20 °C)
<b>Vapor density</b>	2.93 (Air = 1) (20 °C)
<b>Relative density</b>	1.32 (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Slightly miscible.
<b>Partition coefficient (n-octanol/water)</b>	Log Pow: 1.25 - 1.30 (measured)
<b>Auto-ignition temperature</b>	1112 °F (600 °C)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Other information</b>	
<b>Explosive limit</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.
<b>VOC (Weight %)</b>	25 - 65 % (Hylomar Test Method 1.1A Determination of Volatile Matter)

**SECTION X – STABILITY AND REACTIVITY**

<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Heat, sparks, flames, elevated temperatures.
<b>Incompatible materials</b>	Strong oxidizing agents. Alkali metals.
<b>Hazardous decomposition products</b>	Phosgene. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

**SECTION XI – TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Vapors may cause drowsiness and dizziness.
<b>Skin contact</b>	Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May be absorbed through the skin.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapors may cause drowsiness and dizziness.

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**SECTION XI – TOXICOLOGICAL INFORMATION (CONT)**

**Information on toxicological effects**

**Acute toxicity** Harmful if swallowed.

Product	Species	Test Results
Universal Blue - Light, Medium & Heavy Grades (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	15000 ppm
<i>Oral</i>		
LD50	Rat	1410 - 2524 mg/kg

Components	Species	Test Results
Dichloromethane (CAS 75-09-2)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Guinea pig	40.2 mg/l, 6 Hours
	Mouse	56.23 mg/l, 7 Hours
		51.5 mg/l, 2 Hours
		49.1 mg/l, 6 Hours
	Rat	2000 mg/l 15 Minutes
<b>Components</b>		
		88 mg/l, 900 Days
		79 mg/l, 2 Hours
		52 mg/l, 6 Hours
LD50	Mouse	16000 mg/l, 7 Hours
<i>Oral</i>		
LD50	Rat	1600 mg/kg
<i>Other</i>		
LD50	Mouse	437 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not classified.

**Skin sensitization** Not classified.

**Germ cell mutagenicity** Positive in vitro, but negative in vivo assays.

**Carcinogenicity** Suspected of causing cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Dichloromethane (CAS 75-09-2) 2B Possibly carcinogenic to humans.

**NTP Report on Carcinogens**

Dichloromethane (CAS 75-09-2) Reasonably Anticipated to be a Human Carcinogen.

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

Dichloromethane (CAS 75-09-2) Cancer

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** May cause damage to the following organs through prolonged or repeated exposure: Central nervous system. Liver. Kidneys. Lung.

**Aspiration hazard** Not classified.

**Chronic effects** Severe overexposure may cause cardiac sensitization and result in irregular rhythm. Prolonged or repeated overexposure may cause central nervous system, kidney, liver, and lung damage.

**Further information** Symptoms may be delayed.

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**SECTION XII – ECOLOGICAL INFORMATION**

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
Universal Blue - Light, Medium & Heavy Grades (CAS Mixture)		
	LC50 Salmo garidneri	5.5 mg/l, 96 hours
<b>Aquatic</b>		
Algae	EC50 Algae	> 662 mg/l, 48 hours
Crustacea	EC50 Daphnia magna	135 - 2270 mg/l, 48 hours
Fish	LC50 Guppy (Poecilia reticulata)	295 mg/l, 14 days
	NOEC Pimephales promelas	357 mg/l, 8 days

**Components**

Components	Species	Test Results
Dichlormethane (CAS 75-09-2)		
<b>Aquatic</b>		
Crustacea	EC50 Water flea (Daphnia magna)	1250 mg/l, 48 hours
Fish	LC50 Fathead minnow (Pimephales promelas)	140.8 - 277.8 mg/l, 96 hours

**Persistence and degradability** The product is not readily biodegradable. BOD: 5 - 25% / 28 days. The product is intrinsically biodegradable. Degradation = 100% / 28 days.

**Bioaccumulative potential** Potential to bioaccumulate is low. BCF (Cyprinus carpio): 6.4 - 40, 42 days at 0.025 ppm. Log Pow: 1.25 - 1.30 (measured).

Partition coefficient n-octanol / water (log Kow)	
Dichlormethane (CAS 75-09-2)	1.25

**Mobility in Soil** Not available

**Mobility in general** The product is slightly soluble in water.

**Other adverse effects** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**SECTION XIII – DISPOSAL**

**Disposal instructions** Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose of in accordance with local regulations.

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

**US RCRA Hazardous Waste U List: Reference**

Dichlormethane (CAS 75-09-2)	U080
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**Waste from residues / unused products** Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION XIV - TRANSPORTATION**

**DOT**

<b>UN number</b>	UN2810
<b>UN proper shipping name</b>	Toxic liquid, organic, n.o.s. (Dichlormethane)
<b>Transport hazard class(es)</b>	
<b>Class</b>	6.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	IB3, T7, TP1, TP28
<b>Packaging exceptions</b>	153
<b>Packaging non bulk</b>	203
<b>Packaging bulk</b>	241



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**SECTION XV – REGULATORY INFORMATION (CONT)**

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

**US. Massachusetts RTK - Substance List**

Dichloromethane (CAS 75-09-2)

**US. New Jersey Worker and Community Right-to-Know Act**

Dichloromethane (CAS 75-09-2)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Dichloromethane (CAS 75-09-2)

**US. Rhode Island RTK**

Dichloromethane (CAS 75-09-2)

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Dichloromethane (CAS 75-09-2)

**International Inventories**

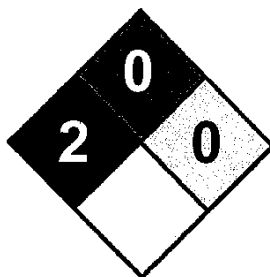
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**SECTION XVI – OTHER INFORMATION**

**NFPA Ratings**



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