

SAFETY DATA SHEET

1. Identification

Product identifier Universal Blue/Aerograde PL32 -Light, Medium and Heavy Grades

Other means of identification

SDS number 60

Recommended use Non-Setting and Non-Hardening Gasketing Compound.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer: Hylomar Ltd.

Address: Hylo House, Cale Lane, New Springs,

Wigan, Greater Manchester.

UK, WN2 1JT

Telephone number: +44(0)1942 617000

E-mail address: info@hylomar.co.uk

Contact person: Technical Department

Emergency telephone: 1.866.519.4752 (USA, Canada, Mexico)

1-760-476-3962 Access code: 333544

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure Category 3 narcotic effects
Specific target organ toxicity, repeated Category 2 (kidney, liver)

exposure

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Suspected of causing

cancer. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage

to organs (kidney, liver) through prolonged or repeated exposure.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

Response 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. Take off contaminated clothing and wash it before reuse. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical

advice/attention.

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Store locked up. Store in a well-ventilated place. Keep container tightly closed. Storage

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Dichloromethane	75-09-2	50 - 60
Silicon dioxide, crystalline silica-free	7631-86-9	5 - 10

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

Move into fresh air and keep at rest. If not breathing, give artificial respiration or give oxygen by Inhalation

trained personnel. Get medical attention if any discomfort continues.

Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. Get Skin contact

medical attention if irritation develops and persists.

Immediately rinse eyes with water. Remove any contact lenses, and continue flushing eyes with Eye contact 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.

Rinse mouth thoroughly. If vomiting occurs, keep head low so that stomach content does not get Ingestion

into the lungs. Do not induce vomiting. Drink a few glasses of water or milk. Get medical attention

Symptoms include itching, burning, redness, and tearing of eyes. Harmful if swallowed. Vapors

may cause drowsiness and dizziness. Prolonged exposure may cause chronic effects.

immediately.

Most important symptoms/effects, acute and

delayed

Provide general supportive measures and treat symptomatically.

Indication of immediate medical attention and special treatment needed

General information

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

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

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

Specific hazards arising from the chemical

By heating and fire, toxic vapors/gases may be formed. Solvent vapors may form explosive

Special protective equipment and precautions for firefighters 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.

Fire fighting equipment/instructions Specific methods General fire hazards

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.

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

The product is not flammable.

mixtures with air.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapors/mist and contact with skin and eyes. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources. Ventilate the area. Wipe up with absorbent material (e.g. cloth, fleece). Transfer to a container for disposal. Put material in suitable, covered, labeled containers. Following product recovery, flush area with water.

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

Do not discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so.

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. Avoid prolonged exposure. Wear protective clothing as described in Section 8 of this safety data sheet. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid inhalation of vapors/mist and contact with skin and eyes. Use only outdoors or in a well-ventilated area. Observe good industrial hygiene practices. Avoid release to the environment. Should be handled in closed systems, if possible.

Conditions for safe storage, including any incompatibilities Store locked up. Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, spark, open flames and other sources of ignition. Store in closed original container at temperatures between 5°C and 25°C. Store away from incompatible materials (see Section 10 of the SDS).

Value

8. Exposure controls/personal protection

Occupational exposure limits

Components

Typo

Components	туре	value	
Dichloromethane (CAS 75-09-2)	STEL	125 ppm	
•	TWA	25 ppm	
US. OSHA Table Z-3 (29 CFR 1910	.1000)		
Components	Туре	Value	
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)	TWA	0.8 mg/m3	
,		20 mppcf	
US. ACGIH Threshold Limit Values	3		
Components	Туре	Value	
Dichloromethane (CAS 75-09-2)	TWA	50 ppm	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)	TWA	6 mg/m3	

Biological limit values

ACGIH Biological E	xposure Indices
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Components	Value	Determinant	Specimen	Sampling Time	
Dichloromethane (CAS 75-09-2)	0.3 mg/l	Dichlorometha ne	Urine	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines Appropriate engineering

controls

Follow standard monitoring procedures.

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. Provide easy access to water supply and eye wash facilities.

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.

Skin protection

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

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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. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. 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 Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. 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.

9. Physical and chemical properties

Appearance

Physical state Liquid.

Form Thixotropic gel.

Color Blue.
Odor Sweet.

Odor threshold Not available.

PH Not applicable.

Melting point/freezing point Not available.

Initial boiling point and boiling Not applicable.

range

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

riaiiiiiabiiity iiiiii

Not applicable.

(%)

Flammability limit - upper

Not applicable.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 47 kPa (20 °C)

Vapor density 2.93 (Air = 1) (20 °C)

Relative density 1.32 (20 °C)

Solubility(ies)

Solubility (water) Slightly miscible.

Solubility (solvents) Miscible.

Partition coefficient

(n-octanol/water)
 Auto-ignition temperature
 Decomposition temperature
 Viscosity
 1.25 - 1.3 (Measured)
 1112 °F (600 °C)
 Not available.
 Not applicable.

Other information

Explosive limitNot available.Explosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

VOC 25 - 65 % (Hylomar Test Method 1.1A Determination of Volatile Matter)

10. Stability and reactivity

ReactivityThe product is stable and non reactive under normal conditions of storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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Conditions to avoid Heat, sparks, flames, elevated temperatures.

Incompatible materials Strong oxidizing agents. Alkali metals.

Hazardous decomposition

products

Phosgene. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause respiratory irritation. Vapors may cause drowsiness and dizziness.

Skin contact Causes skin irritation. May be absorbed through the skin.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms include itching, burning, redness, and tearing of eyes. Vapors may cause drowsiness

and dizziness. Harmful if swallowed. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components Species Test Results

Dichloromethane (CAS 75-09-2)

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg OECD test guideline 402

Oral

LD50 Rat 1600 mg/kg

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg, 24 Hours

Inhalation

Dust

LC50 Rat > 0.14 mg/l, 4 Hours

Oral

LD50 Rat > 3300 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye Causes

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization Based on available data, the classification criteria are not met.

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) 2A Probably carcinogenic to humans.

Silicon dioxide, crystalline silica-free (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Dichloromethane (CAS 75-09-2) Cancer

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity -

May cause respiratory irritation. May cause drowsiness or dizziness.

single exposure

May cause damage to organs (kidney, liver) through prolonged or repeated exposure.

Specific target organ toxicity - repeated exposure

Aspiration hazard Due to lack of data the classification is not possible.

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Severe overexposure may cause cardiac sensitization and result in irregular rhythm. May cause **Chronic effects**

damage to organs through prolonged or repeated exposure. Prolonged or repeated overexposure

may cause central nervous system, kidney, liver, and lung damage.

Further information Symptoms may be delayed.

12. 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.

Test Results Product Species

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Acute

LC50 Salmo garidneri 5.5 mg/l, 96 hours

Aquatic Acute

EC50 > 662 mg/l, 48 hours Algae Algae Crustacea EC50 Daphnia magna 135 - 2270 mg/l, 48 hours Fish LC50 Fish 135 - 502 mg/l, 96 hours

Chronic

Fish LC50 Guppy (Poecilia reticulata) 295 mg/l, 14 days

NOEC Pimephales promelas 357 mg/l, 8 days

Persistence and degradability

The product is not readily biodegradable. BOD: 5 - 25% / 28 days. The product is intrinsically

biodegradable. Degradation = 100% / 28 days.

Potential to bioaccumulate is low. BCF (Cyprinus carpio): 6.4 - 40, 42 days at 0.025 ppm. Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

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Grades

Dichloromethane (CAS 75-09-2) 1.25

Mobility in soil No data available.

Mobility in general The product is slightly soluble in water.

The product contains volatile organic compounds which have a photochemical ozone creation Other adverse effects

potential.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not

discharge into drains, water courses or onto the ground. Dispose of contents/container in

accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company. 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).

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

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number UN2810

UN proper shipping name

Transport hazard class(es)

Toxic liquid, organic, n.o.s. (Dichloromethane)

Class 6.1 Subsidiary risk 6.1 Label(s) Ш Packing group

Environmental hazards

No Marine pollutant

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Special provisions IB3, T7, TP1, TP28

Packaging exceptions 153 Packaging non bulk 203 241 Packaging bulk

IATA

UN2810 **UN number**

UN proper shipping name Toxic liquid, organic, n.o.s. (Dichloromethane)

Transport hazard class(es)

Class 6.1 Subsidiary risk Label(s) 6.1 Packing group Ш **Environmental hazards** No **ERG Code** 61

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN2810 **UN** number

Toxic liquid, organic, n.o.s. (Dichloromethane) **UN** proper shipping name

Transport hazard class(es)

Class 6.1 Subsidiary risk 6.1 Label(s) Packing group Ш **Environmental hazards**

Marine pollutant No F-A, S-A **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Dichloromethane (CAS 75-09-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Dichloromethane (CAS 75-09-2) Cancer

Heart

Central nervous system

Liver Skin irritation Eve irritation

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Acute toxicity (any route of exposure)

Skin corrosion or irritation categories

Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

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Other federal regulations

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

Dichloromethane (CAS 75-09-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Dichloromethane (CAS 75-09-2)

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

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

Dichloromethane (CAS 75-09-2)

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

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

Dichloromethane (CAS 75-09-2)

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

US. Rhode Island RTK

Dichloromethane (CAS 75-09-2)

California Proposition 65



WARNING: This product can expose you to chemicals including Dichloromethane, which is known to the State

of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Dichloromethane (CAS 75-09-2) Listed: April 1, 1988

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

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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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).

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

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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).

HMIS® ratings Health: 2*

Flammability: 0 Physical hazard: 0

NFPA ratings

2 0

List of abbreviations LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%. EC50: Effective Concentration, 50%. NOEC: No observed effect concentration.

References HSDB® - Hazardous Substances Data Bank

Registry of Toxic Effects of Chemical Substances (RTECS) ESIS (European chemical Substances Information System)

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

This SDS contains revisions in

the following section(s):

2, 3, 6, 7, 8, 9, 11, 13, 15, 16

SDS US

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