# YLOMAR

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation Universal Blue/Aerograde PL32 -Light, Medium and Heavy Grades

of the mixture

Registration number

UFI: D300-D0CX-400G-28HQ, 3500-W02A-E00Y-QM3S

**Synonyms** None. SDS number 60

Issue date 18-April-2016

Version number 07

**Revision date** 29-January-2024 06-October-2023 Supersedes date

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Non-Setting and Non-Hardening Gasketing Compound.

None known. Uses advised against

1.3. Details of the supplier of the safety data sheet

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 **Technical Department** Contact person: 1.4. Emergency telephone +1-760-476-3961 (US)

number

Access code: 333544

112 or 999 SDS/Product information may not be available for the Emergency **General emergency** 

Service.

Non-emergency medical

helpline

111 SDS/Product information may not be available for the Emergency Service.

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

# Classification according to Regulation (EC) No 1272/2008 as amended

**Health hazards** 

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Carcinogenicity Category 2 H351 - Suspected of causing

cancer.

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

dizziness.

# 2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Dichloromethane

**Hazard pictograms** 

exposure



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Signal word Warning

**Hazard statements** 

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

**Precautionary statements** 

Prevention

P201 Obtain special instructions before use.

P261 Avoid breathing mist/vapours.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

**Disposal** Not assigned.

Supplemental information on

the label

None.

2.3. Other hazards This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Dichloromethane	25 - 65	75-09-2 200-838-9	01-2119480404-41-XXXX	602-004-00-3	#

Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Carc. 2;H351, STOT SE 3;H336

# List of abbreviations and symbols that may be used above

#: This substance has workplace exposure limit(s).

**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.

The full text for all H-statements is displayed in section 16.

## **SECTION 4: First aid measures**

General information IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware

of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and

delayed

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

# **SECTION 5: Firefighting measures**

General fire hazards Will burn if involved in a fire.

5.1. Extinguishing media

**Suitable extinguishing** Water fog. Foam. media

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

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Unsuitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed such as: Carbon oxides. Silicon oxides. Hydrogen chloride. Phosgene.

5.3. Advice for firefighters

Special protective equipment for firefighters

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

Special fire fighting procedures

Specific methods

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

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

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

Never return spills to original containers for re-use. Put material in suitable, covered, labelled containers.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

**7.3. Specific end use(s)**Observe industrial sector guidance on best practices.

## **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

#### Occupational exposure limits

# UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Туре	Value	
Dichloromethane (CAS 75-09-2)	STEL	706 mg/m3	
		200 ppm	
	TWA	353 mg/m3	
		100 ppm	

# **Biological limit values**

# UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2 Components Value Determinant Specimen Sampling Time

Dichloromethane (CAS 30 ppm Carbon end-tidal 75-09-2) monoxide breath

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

Recommended monitoring procedures

Follow standard monitoring procedures.

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#### Derived no effect levels (DNELs)

### **General population**

Components	Value	Assessment factor	Notes
Dichloromethane (CAS 75-09-2)			
Long-term, Systemic, Dermal	5.82 mg/kg	100	Repeated dose toxicity
Long-term, Systemic, Inhalation	44 mg/m3		Repeated dose toxicity
Long-term, Systemic, Oral	0.06 mg/kg	100	Repeated dose toxicity
Workers			
Components	Value	Assessment factor	Notes
Dichloromethane (CAS 75-09-2)			
Long-term, Systemic, Dermal	12 mg/kg	50	Repeated dose toxicity
Long-term, Systemic, Inhalation	176 mg/m3		Repeated dose toxicity
edicted no effect concentrations (PNECs)			
Components	Value	Assessment factor	Notes
Dichloromethane (CAS 75-09-2)			
Freshwater	0.31 mg/l	20	
Marine water	0.031 mg/l	200	
Sediment (freshwater)	2.57 mg/kg		
Sediment (marine water)	0.26 mg/kg		
Soil	0.33 mg/kg		
STP	26 mg/l	100	
posure guidelines			
IIIZ ELIAO MEL . Obio de alon esta o			

**UK EH40 WEL: Skin designation** 

Dichloromethane (CAS 75-09-2)

Can be absorbed through the skin.

## 8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation 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 eyewash station and safety shower.

#### Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.

Skin protection

- Hand protection Wear suitable gloves tested to EN374. Full contact: Glove material: Fluorinated rubber. Use gloves

with breakthrough time of 148 minutes. Minimum glove thickness 0.7 mm.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** Follow guidance on selection, use, care and maintenance in accordance with EN 529.

Recommended use: Chemical respirator with organic vapour cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

Hygiene measures 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.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or

engineering modifications to the process equipment may be necessary to reduce emissions to

acceptable levels.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Thixotropic gel.

Colour Blue.
Odour Sweet.

Odour threshold Not determined.

pH Not determined.

**Melting point/freezing point** -95 °C (-139 °F) Dichloromethane

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Initial boiling point and boiling

range

Not determined.

Not determined Flash point **Evaporation rate** Not determined.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not determined. Not determined. Explosive limit - upper

(%)

47 kPa (20 °C / 68 °F) Vapour pressure 2.93 (Air = 1) (20 °C / 68 °F) Vapour density

Relative density 1.32

20 °C (68 °F) Relative density temperature

Solubility(ies)

Solubility (water) Slightly miscible.

Solubility (solvents) Miscible.

Partition coefficient (n-octanol/water)

1.25 - 1.3 (Measured)

600 °C (1112 °F) **Auto-ignition temperature** Not determined. **Decomposition temperature** Not determined. **Viscosity** Not available. **Explosive properties** Not available. **Oxidising properties** 

9.2. Other information

Not determined. Kinematic viscosity

Molecular weight Not applicable to mixtures. 1.32 (20 °C (68 °F)) Specific gravity

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

# **SECTION 10: Stability and reactivity**

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. 10.4. Conditions to avoid

Strong oxidising agents. Alkali metals. Chlorine. Fluorine. 10.5. Incompatible materials

10.6. Hazardous Hydrogen chloride. Phosgene.

decomposition products

# **SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Causes serious eye irritation. Eye contact

Ingestion Expected to be a low ingestion hazard.

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. **Symptoms** 

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

# 11.1. Information on toxicological effects

**Acute toxicity** 

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Dichloromethane (CAS 75-09-2)

Acute

**Dermal** 

LD50 Rabbit > 2000 mg/kg OECD Test Guideline 402

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye irritation.

Causes skin irritation.

Oduses serious eye irritation.

**Respiratory sensitisation**Based on available data, the classification criteria are not met. **Skin sensitisation**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.

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

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

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

Aspiration hazard Due to the physical form of the product it is not expected to be an aspiration hazard.

Mixture versus substance

information

No information available.

**Other information** Severe overexposure may cause cardiac sensitisation and result in irregular rhythm.

# **SECTION 12: Ecological information**

**12.1. Toxicity** 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/Aerograde PL32 -Light, Medium and Heavy Grades (CAS Mixture)

**Aquatic** 

Acute

 Algae
 EC50
 Algae
 > 662 mg/l, 48 hours

 Crustacea
 EC50
 Daphnia magna
 135 - 2270 mg/l, 48 hours

 Fish
 LC50
 Fish
 135 - 502 mg/l, 96 hours

Salmo gairdneri (new name 5.5 mg/l, 96 hours

Oncorhynchus mykiss)

Chronic

Fish LC50 Guppy (Poecilia reticulata) 295 mg/l, 14 days NOEC Pimephales promelas 357 mg/l, 8 days

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

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1.25 - 1.3, (Measured)

Grades

Dichloromethane (CAS 75-09-2)

Bioconcentration factor (BCF) Not available.

**12.4. Mobility in soil** This product is miscible in water and may not disperse in soil.

12.5. Results of PBT and vPvB

assessment

This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

**12.6. Other adverse effects** The product is a volatile organic compound which has a photochemical ozone creation potential.

Dichloromethane (CAS 75-09-2)

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

**Residual waste** Empty containers or liners may retain some product residues. This material and its container must

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be disposed of in a safe manner. Dispose of in accordance with local regulations.

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code 16 03 05\*

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

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Discourage

sewage disposal. Waste should not be disposed of by release to sewers. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special precautions**Dispose in accordance with all applicable regulations.

**SECTION 14: Transport information** 

ADR

**14.1. UN number** UN2810

**14.2. UN proper shipping** TOXIC LIQUID, ORGANIC, N.O.S. (Dichloromethane)

name

14.3. Transport hazard class(es)

Class 6.1
Subsidiary risk Label(s) 6.1
Hazard No. (ADR) 60
Tunnel restriction code E
14.4. Packing group III
14.5. Environmental hazards No.

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

for user

RID

**14.1. UN number** UN2810

**14.2. UN proper shipping** TOXIC LIQUID, ORGANIC, N.O.S. (Dichloromethane)

name

14.3. Transport hazard class(es)

Class 6.1
Subsidiary risk Label(s) 6.1

14.4. Packing group III

14.5. Environmental hazards No.

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

**14.1. UN number** UN2810

**14.2. UN proper shipping** TOXIC LIQUID, ORGANIC, N.O.S. (Dichloromethane)

name

14.3. Transport hazard class(es)

Class 6.1
Subsidiary risk Label(s) 6.1
14.4. Packing group III
14.5. Environmental hazards No.

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

**IATA** 

**14.1. UN number** UN2810

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

name

14.3. Transport hazard class(es)

Class 6.1 Subsidiary risk -

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14.4. Packing group III
14.5. Environmental hazards No.
ERG Code 6L

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

**IMDG** 

**14.1. UN number** UN2810

**14.2. UN proper shipping** TOXIC LIQUID, ORGANIC, N.O.S. (Dichloromethane)

name

14.3. Transport hazard class(es)
Class 6.1
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards

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

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

This substance/mixture is not intended to be transported in bulk.

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

Code

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Retained direct EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Dichloromethane (CAS 75-09-2)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

## Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Dichloromethane (CAS 75-09-2)

#### Other regulations

This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended.

Follow the requirements of the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended, when using this material.

New or expectant mothers should not work with this product if there is a risk due to exposure, in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended.

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

#### **SECTION 16: Other information**

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

EC50: Effective Concentration, 50%.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

LC50: Lethal Concentration 50%.

LD50: Lethal Dose 50%.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NOEC: No observed effect concentration. PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

#### References

Information on evaluation method leading to the classification of mixture

Full text of any statements, which are not written out in full under sections 2 to 15

**ECHA CHEM** 

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

This SDS contains revisions in the following section(s):

**Training information** 

Disclaimer

Follow training instructions when handling this material.

Hylomar Ltd. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

SDS Great Britain

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