

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

PRODUCT NAME UNIVERSAL BLUE GASKET & JOINTING COMPOUND
PART NUMBER 865135
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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 Directive 67/548/EEC or 1999/45/EC as amended

Classification Carc. Cat. 3;R40, Xn;R22-48/20, Xi;R36/38

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended**Health hazards**

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
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 - repeated exposure	Category 2 (Central nervous system)	H373 - May cause damage to through prolonged or repeated organs (Central nervous system) exposure.

HAZARD SUMMARY

Physical hazards Not classified for physical hazards.

Health hazards Harmful if swallowed. Irritating to eyes and skin. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Environmental hazards Not classified for hazards to the environment.

Specific hazards Prolonged exposure may cause chronic effects.

Main symptoms Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapours may cause drowsiness and dizziness.

2.2. Label elements

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

Contains: Dichlormethane



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Signal word	Danger
Hazard statements	H302 - Harmful if swallowed. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H351 - Suspected of causing cancer. H373 - May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
Precautionary statements	
Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe the mist or vapour. P264 - Wash thoroughly after handling. P280 - Wear protective gloves/eye protection/face protection.
Response	P301 + P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. P330 - Rinse mouth. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P332 + P313 - If skin irritation occurs: 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. P337 + P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.
Storage	P405 - Store locked up.
Disposal	P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	Not applicable.
2.3. Other hazards	Not assigned.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Dichlormethane	25-65	75-09-2 200-838-9	-	602-004-00-3	
Classification:	DSD: Carc. Cat. 3;R40, Xn;R22-48/20, Xi;R36/38				
	CLP: Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Carc. 2;H351, STOT RE 2;H373				

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

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

Composition comments

The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

General information

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	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.
Skin contact	Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If irritation develops and persists, get medical attention.
Eye contact	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.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Drink a few glasses of water or milk. Get medical attention immediately.

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Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapours may cause drowsiness and dizziness.

Provide general supportive measures and treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media	The product is not flammable.
Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
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	By heating and fire, toxic vapours/gases may be formed. Solvent vapours may form explosive mixtures with air.
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. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Special fire fighting procedures	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.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of vapours/spray and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
For emergency responders	Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.
6.2. Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or onto the ground.
6.3. Methods and material 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. Following product recovery, flush area with water.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling	Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapours/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.
7.2. Conditions for safe storage, including any incompatibilities	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 in closed original container at temperatures between 5°C and 25°C.
7.3. Specific end use(s)	Non-Setting and Non-Hardening Gasketing Compound.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits Dichlormethane

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Dichlormethane (CAS 75-09-2)	STEL	1060 mg/m ³
	TWA	300 ppm
		350 mg/m ³
		100 ppm

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Components	Value	Determinant	Specimen	Sampling time
Dichlormethane (CAS 75-09-2)	30 ppm	Carbon monoxide	end-tidal breath	*
Recommended monitoring procedures	Follow standard monitoring procedures.			
Derived no-effect level (DNEL)	Not available.			
Predicted no effect concentrations (PNECs)	Not available.			
Exposure guidelines				
UK EH40 WEL: Skin designation				
Dichlormethane (CAS 75-09-2)	Can be absorbed through the skin.			
8.2. Exposure controls				
Appropriate engineering controls	Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.			
Individual protection measures, such as personal protective equipment				
General information	Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the 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 vapours, use suitable respiratory equipment with gas filter (type A2). 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.			
Thermal hazards	Not applicable.			
Hygiene measures	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	Environmental manager must be informed of all major releases.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue thixotropic gel.
Physical state	Liquid.
Form	Thixotropic gel.
Colour	Blue.
Odour	Sweet.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.

Vapour pressure	47 kPa (20 °C)
Vapour density	2.93 (Air = 1) (20 °C)
Relative density	1.32 (20 °C)
Solubility(ies)	Slightly miscible.
Partition coefficient (n-octanol/water)	Log Pow: 1.25 - 1.30 (measured)
Auto-ignition temperature	600 °C (1112 °F)
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
Explosive limit	Not available.
VOC (Weight %)	25 - 65 % (Hylomar Test Method 1.1A Determination of Volatile Matter)

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.
10.4. Conditions to avoid	Heat, sparks, flames, elevated temperatures.
10.5. Incompatible materials	Strong oxidising agents. Alkali metals.
10.6. Hazardous decomposition products	Phosgene. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Ingestion	Harmful if swallowed. Ingestion may cause irritation and malaise.
Inhalation	Vapours may cause drowsiness and dizziness.
Skin contact	Causes skin irritation. May be absorbed through the skin.
Eye contact	Causes serious eye irritation.

Symptoms Symptoms include itching, burning, redness, and tearing of eyes. Itching, redness, burning of skin. Vapours may cause drowsiness and dizziness.

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed.

Product	Species	Test results
Universal Blue - Light, Medium & Heavy Grades (CAS Mixture)		
Acute		
<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
Dichlormethane (CAS 75-09-2)		
Acute		
<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

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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 sensitisation	Not classified.	
Skin sensitisation	Not classified.	
Germ cell mutagenicity	Positive in vitro, but negative in vivo assays.	
Carcinogenicity	Suspected of causing cancer.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Dichlormethane (CAS 75-09-2)		2B Possibly carcinogenic to humans.
Reproductive toxicity	Not classified.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure: Central nervous system. Liver. Kidneys.	
Aspiration hazard	Not classified.	
Mixture versus substance information	Not available.	
Other information	Symptoms may be delayed. Severe overexposure may cause cardiac sensitisation and result in irregular rhythm.	

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 - Light, Medium & Heavy Grades (CAS Mixture)		
	LC50	Salmo garidneri
		5.5 mg/l, 96 hours
Aquatic		
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		
Dichlormethane (CAS 75-09-2)		
Aquatic		
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

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

12.3. 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) Log Pow: 1.25 - 1.30 (measured)

Dichlormethane (CAS 75-09-2) 1.25

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Not available.

Mobility in general The product is slightly soluble in water.

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

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Residual waste	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.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	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.
Special precautions	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

ADR

14.1. UN number	UN2810
14.2. UN proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
14.3. Transport hazard class(es)	6.1
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Tunnel restriction code	E
Labels required	6.1
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN2810
14.2. UN proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
14.3. Transport hazard class(es)	6.1
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Labels required	6.1
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN2810
14.2. UN proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
14.3. Transport hazard class(es)	6.1
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Labels required	6.1
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN2810
14.2. UN proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
14.3. Transport hazard class(es)	6.1
Subsidiary class(es)	-
14.4. Packing group	III

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14.5. Environmental hazards	No
Labels required	6.1
ERG code	6L
14.6. Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.

IMDG

14.1. UN number	UN2810
14.2. UN proper shipping name	Toxic liquid, organic, n.o.s. (Dichlormethane)
14.3. Transport hazard class(es)	6.1
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	No
Labels required	6.1
EmS	F-A, S-A
14.6. Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. REGULATORY INFORMATION

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 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

Dichlormethane (CAS 75-09-2)

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, 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

Dichlormethane (CAS 75-09-2)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Dichlormethane (CAS 75-09-2)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

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Dichlormethane (CAS 75-09-2)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

List of abbreviations

CLP: Regulation No. 1272/2008.
DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.

References

Not available.

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.
R40 Limited evidence of a carcinogenic effect.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.

Training information

Follow training instructions when handling this material.

Disclaimer

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