


GRABFAST CLEAR (Sprayable Contact Adhesive)

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifier Product Name	GRABFAST CLEAR (Sprayable Contact Adhesive)	
1.2	Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against	Industrial Adhesives Anything other than the above.	
1.3	Details of the supplier of the safety data sheet Company Identification Telephone Fax E-Mail (competent person)	Gemini Adhesives Ltd New Building, Top Road, Osgathorpe, Leicestershire, LE12 9TB 01530 224712 01530 223514 info@geminiadhesivesgroup.com	
1.4	Emergency telephone number Emergency Phone No. Languages spoken	01530 224712 07970 424841 English	8.30am – 5.00pm Monday to Friday excluding bank holidays Outside the above hours

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture	Flam. Gas 1; H220 Liq. Gas 1; H280 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 STOT RE 2; H373 Carc. 2; H351		
2.1.1	Regulation (EC) No. 1272/2008 (CLP)			
2.2	Label elements Product Name Contains: Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	According to Regulation (EC) No. 1272/2008 (CLP) GRABFAST CLEAR (Sprayable Contact Adhesive) Dichloromethane  DANGER H220: Extremely flammable gas. H280: Contains gas under pressure; may explode if heated. H315: Causes skin irritation. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H373: May cause damage to organs through prolonged or repeated exposure. H351: Suspected of causing cancer.		

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Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P403: Store in a well-ventilated place.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352: IF ON SKIN: Wash with plenty of water.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P260: Do not breathe mist/vapours/spray.
 P312: Call a POISON CENTER/doctor if you feel unwell.

2.3 Other hazards

The vapours are heavier than air and explosive mixtures can accumulate in low areas. Liquid splashes or spray may cause freeze burns to skin and eyes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	INDEX No.	REACH Registration No.	Hazard classification
Dichloromethane	<25	75-09-2	200-838-9	602-004-00-3	Not yet assigned in the supply chain	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 Carc. 2; H351 STOT RE 2; H373

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation.

Inhalation

IF INHALED: Remove persons affected by vapour to fresh air. Apply artificial respiration if patient is not breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Skin Contact

IF ON SKIN (or hair): In case of contact with liquid, thaw frosted parts with water. Do not attempt to remove clothing which has stuck to the skin. Wash affected area with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Call a POISON CENTER/doctor.

Eye Contact

IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention. If frostbite, call a physician.

Ingestion

IF SWALLOWED: Do NOT induce vomiting. If vomiting occurs turn patient on side. IF exposed or concerned: Call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness. Causes serious eye irritation. Do not attempt to remove clothing that adheres to the skin due to freezing.

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4.3	Indication of any immediate medical attention and special treatment needed	Upon exposure to Dichlormethane: Do not administer any preparations of the adrenaline-ephedrine group.
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SECTION 5: FIRE-FIGHTING MEASURES

5.1	Extinguishing media Suitable Extinguishing Media Unsuitable extinguishing Media	Water spray, foam, dry powder or CO2 Do not use water jet. Direct water jet may spread the fire.
5.2	Special hazards arising from the substance or mixture	In case of fire, stop leak if safe to do so. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. May decompose in a fire, giving off toxic and irritant vapours. Hazardous decomposition product(s): Hydrogen chloride, carbon oxides, Phosgene, Chlorine
5.3	Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. If possible remove containers before using water. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Avoid all contact. Use personal protective equipment as required. Avoid breathing gas. Ensure adequate ventilation. Remove all ignition sources. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Remove clothing and wash thoroughly before use. In case of contact with liquid, thaw frosted parts with water, remove clothing carefully and wash with soap & water. Isolate the area and allow vapours to disperse. Evacuate the area and keep personnel upwind.
6.2	Large spillages: Environmental precautions Large spillages:	Do not allow to enter drains, sewers or watercourses. Contain the spillage. Any large spillage into watercourses must be alerted to the regulatory authority responsible for environmental protection or other regulatory body.
6.3	Methods and material for containment and cleaning up Large spillages:	Allow small spillages to evaporate provided there is adequate ventilation. Do not pierce or burn container, even after use. Containers of this material may be hazardous when empty since they retain product residue. Evacuate the area and keep personnel upwind. Notify police and fire brigade as soon as possible.
6.4	Reference to other sections	See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing gas. Keep away from: Elevated temperature. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place. Keep from direct sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Ground/bond container and receiving equipment.
7.2	Conditions for safe storage, including any incompatibilities Storage temperature Incompatible materials	Keep only in original container. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Opened containers should be carefully resealed and stored in an upright position. Store at room temperature. Acids, Bases, Strong oxidising agents. Avoid contact with alkali metals.
7.3	Specific end use(s)	Industrial Adhesives

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Dichloromethane	75-09-2	100	350	300	1060	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value

None assigned

8.1.3 PNECs and DNELs

Not established

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing gas. IF exposed: Wash immediately with water. Wash contaminated clothing before reuse. Do not eat, drink or smoke at the work place.

Eye/face protection



Eye protection with side protection (EN 166)

Skin protection



Hand protection

Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Body protection

Wear suitable coveralls to prevent exposure to the skin.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type AX may be appropriate.

Thermal hazards

None anticipated.

8.2.3 Environmental Exposure Controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear
Odour	Solvent odour.
Odour Threshold	Not established
pH	Not applicable
Melting Point/Freezing Point	-97 °C
Initial boiling point and boiling range	40 °C
Flash point	-90 °C - [Closed cup]
Evaporation Rate	Not established

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Flammability (solid, gas)	Not established
Upper/lower flammability or explosive limits	Upper limit: 19% (V) Lower limit: 12% (V)
Vapour pressure	70 psig @ 21.1 °C
Vapour density	(Air=1) 2.15
Relative density	1.3 g/mL @ 25 °C
Solubility(ies)	Insoluble (Hansen solubility test parameter)
Partition coefficient: n-octanol/water	Log Pow: 1.25
Auto-ignition temperature	> 556.1 °C
Decomposition Temperature	Not established
Viscosity	Not applicable
Explosive properties	Not established
Oxidising properties	Not established

9.2 Other information None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Stable under normal conditions. Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep from direct sunlight. Keep away from: Elevated temperature. Do not spray on an open flame or other ignition source.
10.5 Incompatible materials	Acids, Bases, Strong oxidising agents. Avoid contact with alkali metals.
10.6 Hazardous decomposition product(s)	May decompose in a fire, giving off toxic and irritant vapours. Hazardous decomposition product(s): Hydrogen chloride, carbon oxides, Phosgene, Chlorine

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	All test data taken from existing ECHA registrations for the substances mentioned.
Acute toxicity	
Ingestion	Based upon the available data, the classification criteria are not met. Dichloromethane: LD50 (oral,rat) mg/kg: >2,000 (OECD 402)
Inhalation	Based upon the available data, the classification criteria are not met. Dichloromethane: LC50 (inhalation,rat) mg/l/4h: 52 (OECD 402)
Skin Contact	Based upon the available data, the classification criteria are not met. Dichloromethane: LD50 (skin,rat) mg/kg: >2,000 (OECD 402)
Skin corrosion/irritation	Skin Irrit. 2; Causes skin irritation. Dichloromethane: Skin (rabbit): Irritating to skin. – 24h (Draize Test)
Serious eye damage/irritation	Eye Irrit. 2; Causes serious eye irritation. Dichloromethane: Eyes (rabbit): Irritating to eyes. – 24h (Draize Test)
Respiratory or skin sensitization	Based on available data, the classification criteria are not met. Dichloromethane: Sensitisation - Negative (OECD 429)
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met. Dichloromethane: DNA Damage (OECD 473)
Carcinogenicity	Carc. 2; Suspected of causing cancer. Dichloromethane: Carcinogenicity (rat) Inhalation LOAEC 2000 ppm (OECD 451)
Reproductive toxicity	Based on available data, the classification criteria are not met. Dichloromethane: Reproductive toxicity - Negative (OECD 416)
STOT - single exposure	STOT SE 3; May cause drowsiness or dizziness. Dichloromethane: May cause respiratory irritation. May cause drowsiness and dizziness. Putz VR et al (1979)
STOT - repeated exposure	STOT RE 2; May cause damage to organs through prolonged or repeated exposure. Dichloromethane: NOAEC 200 ppm (OECD 453)
Aspiration hazard	Based on available data, the classification criteria are not met.

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11.2 Other information Not applicable - Gas
Not determined.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Based upon the available data, the classification criteria are not met.
Estimated LC50 (96 hour) > 100 mg/l (Fish)
Dichloromethane: LC50 (Fathead minnow) 193.00 mg/l – 96h

12.2 Persistence and degradability Biodegradability < 26 % - Not readily biodegradable. (OECD 301C – Mixture)

12.3 Bioaccumulative potential The product has no potential for bioaccumulation.

12.4 Mobility in soil The product is predicted to have low mobility in soil. Insoluble in water.

12.5 Results of PBT and VPVB assessment Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.

12.6 Other adverse effects None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Dispose of this material and its container to hazardous or special waste collection point. Do not pierce or burn container, even after use.
EU Waste Codes: 14 06 03*
Packaging waste: 15 01 04 04

13.2 Additional Information Make sure that packaging is completely empty before recycling. Containers of this material may be hazardous when empty since they retain product residue.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	3161	3161	3161
14.2 UN proper shipping name	LIQUEFIED GAS, FLAMMABLE, N.O.S. (CONTAINS PROPANE AND ISOBUTANE)	LIQUEFIED GAS, FLAMMABLE, N.O.S. (CONTAINS PROPANE AND ISOBUTANE)	LIQUEFIED GAS, FLAMMABLE, N.O.S. (CONTAINS PROPANE AND ISOBUTANE)
14.3 Transport hazard class(es)	2	2	2
14.4 Packing group	None assigned	None assigned	None assigned
14.5 Environmental hazards	Not applicable	Not applicable	Not applicable
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations
Authorisations and/or Restrictions On Use Dichloromethane: Entry 59: Restricted as a constituent > 0.1% w/w of paint strippers
CoRAP Substance Evaluation Dichloromethane: Substance identified for evaluation in 2016

15.1.2 National regulations Not applicable

15.2 Chemical Safety Assessment Not applicable

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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16: New SDS format and issued, all sections have been updated to include new information.

References:

Harmonised Classification(s) for and Existing ECHA registration(s) for Dichloromethane (CAS No. 75-09-2), Propane (CAS No. 74-98-6) and Isobutane (CAS No. 75-28-5).

WEL - EH40 – UK Occupational Exposure Limits

ADD - Aerosol Dispensers Directive 75/324/EEC

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Literature References

- Putz VR, Johnson BL, Setzer JV, 1979, A comparative study of the effects of carbon monoxide and methylene chloride on human performance. J Environ Pathol Toxicol 2, 97-112

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Flam. Gas 1; H220	CLP Article 2.2.2
Liq. Gas 1; H280	CLP Article 2.5.2
Skin Irrit. 2; H315	Threshold Calculation
Eye Irrit. 2; H319	Threshold Calculation
STOT SE. 3; H336	Threshold Calculation
STOT RE. 2; H373	Threshold Calculation
Carc. 2; H351	Threshold Calculation

LEGEND

LTEL: Long Term Exposure Limit

DNEL: Derived No Effect Level

PBT: PBT: Persistent, Bioaccumulative and Toxic

STEL: Short Term Exposure Limit

PNEC: Predicted No Effect Concentration

vPvB: very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Flam. Gas 1: Flammable gas Category 1

Liq. Gas 1: Liquefied gas Category 1

Skin Irrit. 2: Skin corrosion/irritation Category 2

Eye Irrit. 2: Eye Irritation Category 2

STOT SE 3: Specific target organ toxicity — single exposure Category 3

Carc. 2: Carcinogen Category 2

STOT RE 2: Specific target organ toxicity — repeated exposure Category 2

Hazard Statement(s)

H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer.

H373: May cause damage to organs through prolonged or repeated exposure.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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