

SAFETY DATA SHEET FUSION

SECTION 1: Identification of the	SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	FUSION		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Identified uses	Acrylic Rapid Bonding Liquid		
1.3. Details of the supplier of the	he safety data sheet		
Supplier	Production Consumables Direct Limited 10 Crystal Drive Sandwell Park Smethwick B66 1QG		
	Tel : +44 (0)1827 288266		
	Email : info@pcdsales.co.uk		
1.4. Emergency telephone nur	nber		
Emergency telephone	Tel : +44 (0) 1827 288266 (Office Hours)		
SECTION 2: Hazards identifica	ation		
2.1. Classification of the substa	ance or mixture		
Classification (EC 1272/2008)			
Physical hazards	Not Classified		
Health hazards	Carc. 2 - H351		
Environmental hazards	Not Classified		
Classification (67/548/EEC or 1999/45/EC)	Carc. Cat. 3;R40.		
2.2. Label elements			
Hazard pictograms			
Signal word	Warning		
Hazard statements	H351 Suspected of causing cancer.		
Precautionary statements	P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P501 Dispose of contents/ container in accordance with national regulations.		

Contains

Contains	DICHLOROMETHANE	
Supplementary precautionary statements	P201 Obtain special instruction P308+P313 IF exposed or cone P405 Store locked up.	s before use. cerned: Get medical advice/ attention.
2.3. Other hazards		
Hazard id 2a		
Hazard ID 2A		
"Hazard ID 2A"		
Hazard		
SECTION 3: Composition/info	mation on ingredients	
3.2. Mixtures		
DICHLOROMETHANE		60-100%
CAS number: 75-09-2	EC number: 200-83	8-9
Classification Carc. 2 - H351		Classification (67/548/EEC or 1999/45/EC) Carc. Cat. 3;R40
HYDROCARBONS		<10%
CAS number: 64742-82-1	EC number: 919-44	
Classification Flam. Liq. 3 - H226 STOT SE 1 - H370 STOT SE 2 - H371 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		Classification (67/548/EEC or 1999/45/EC) Xn;R65. N;R51/53. R10,R66,R67.
The Full Text for all R-Phrases	and Hazard Statements are Dis	plaved in Section 16.
Ingredient notes		LISTED ABOVE WITH NON-HAZARDOUS ADDITIONS.
SECTION 4: First aid measure	S	
4.1. Description of first aid mea	asures	
Inhalation	-	air at once. For breathing difficulties, oxygen may be on warm and at rest. Get medical attention immediately.
Ingestion	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. DO NOT induce vomiting. Get medical attention immediately.	
Skin contact	Remove contaminated clothing attention if any discomfort conti	immediately and wash skin with soap and water. Get medical inues.
Eye contact		of water. Remove any contact lenses and open eyelids wide east 15 minutes. Get medical attention immediately. Continue
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4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Irritation of nose, throat and airway. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression. Inhalation of vapour or mist may cause lung oedema.
Ingestion	Central nervous system depression. May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.
Skin contact	Skin irritation. Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritation of eyes and mucous membranes. May cause severe eye irritation.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Symptomatic treatment. Adrenaline and similar sypathomimetic drugs should be avoided following exposure as cardic arrhythmia may result with possible subsequent cardiac arrest. Gastric lavage may be effective when performed within 4 hours of ingestion.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	Hydrogen chloride (HCl). Phosgene (COCl2). Oxides of the following substances: Carbon. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
5.3. Advice for firefighters	
Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, pro	tective equipment and emergency procedures
Personal precautions	Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.
6.2. Environmental precaution	<u>S</u>
Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
6.4. Reference to other section	
Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.
SECTION 7: Handling and sto	rage
7.1 Precautions for safe hand	lina

7.1. Precautions for safe handling

Usage precautions	Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Vapours may accumulate on the floor and in low-lying areas. Do not use in confined spaces without adequate ventilation and/or respirator. Avoid heat, flames and other sources of ignition. Storage tanks and other containers must be earthed.	
7.2. Conditions for safe stor	age, including any incompatibilities	
Storage precautions	Keep away from heat, sparks and open flame. Unsuitable containers: copper, zinc, aluminium, copper alloy, zinc alloy, aluminium alloy. Store in tightly-closed, original container in a dry, cool and well-ventilated place.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure controls/Personal protection		
8.1. Control parameters		

Occupational exposure limits

Sk

DICHLOROMETHANE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³ Short-term exposure limit (15-minute): WEL 300 ppm 1060 mg/m³ Sk

HYDROCARBONS

Long-term exposure limit (8-hour TWA): SUP 1200 mg/m³ WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

DICHLOROMETHANE (CAS: 75-09-2)

DNEL	Industry - Inhalation; Short term local effects: 706 mg/m ³ Industry - Dermal; Long term local effects: 4750 mg/kg/day Industry - Inhalation; Long term local effects: 353 mg/m ³ Consumer - Inhalation; Short term local effects: 353 mg/m ³ Consumer - Dermal; Long term local effects: 2395 mg/kg/day Consumer - Dermal; Long term local effects: 88.3 mg/m ³ Consumer - Oral; Long term local effects: 0.06 mg/kg/day Consumer - Oral; Short term local effects: 0.06 mg/kg/day Consumer - Inhalation; Short term systemic effects: 353 mg/m ³
PNEC	 Fresh water; 0.54 mg/l marine water; 0.194 mg/l Sediment (Freshwater); 0.972 mg/kg Soil; 0.583 mg/kg 7-8 - STP; 26 mg/l Sediment (Marinewater); 0.349 mg/kg Intermittent release; 26 mg/l

HYDROCARBONS (CAS: 64742-82-1)

DNEL Industry - Dermal; Long term : 44 mg/kg/day Industry - Inhalation; Long term : 330 mg/m³ Consumer - Dermal; Long term : 26 mg/kg/day Consumer - Inhalation; Long term : 71 mg/m³ Consumer - Oral; Long term : 26 mg/kg/day

8.2. Exposure controls

Protective equipment





Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Wear rubber apron. Wear rubber footwear.
Hygiene measures	Provide eyewash station and safety shower. Wash contaminated clothing before reuse. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. Eating, smoking and water fountains prohibited in immediate work area.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type AX.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Appearance	Liquid.	
Colour	Clear liquid.	
Odour	Characteristic. Ether.	
Odour threshold	200 - 250	
Melting point	-95°C	
Initial boiling point and range	39.8°C	
Flash point	Not applicable.	
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 14 Upper flammable/explosive limit: 22	
Vapour density	2.9	
Relative density	1.3250 @ 25°C	
Solubility(ies)	1.3 @ 20°C	
Partition coefficient	log Pow: 1.25 @ 20°C	
Auto-ignition temperature	556°C	

Viscosity	0.41 mPas
9.2. Other information	
Other information	Not determined.
SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	The following materials may react with the product: Strong alkalis. Oxidising materials. Forms a detonable mixture with Nitric acid. In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Forms a detonable mixture with Nitric acid. Will not polymerise.
10.4. Conditions to avoid	
Conditions to avoid	Avoid heat, flames and other sources of ignition.
10.5. Incompatible materials	
Materials to avoid	Strong alkalis. Strong oxidising agents. Amines. Water, steam, water mixtures. Zinc. Aluminium. Magnesium. Potassium. Sodium.
10.6. Hazardous decomposition	on products
Hazardous decomposition products	Hydrogen chloride (HCI). Phosgene (COCI2). Oxides of the following substances: Carbon monoxide (CO). Chlorine.
SECTION 11: Toxicological in	formation
11.1. Information on toxicolog	ical effects
Inhalation	Irritating to respiratory system. Vapours irritate the respiratory system. May cause coughing and difficulties in breathing. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
Ingestion	Liquid irritates mucous membranes and may cause abdominal pain if swallowed.
Skin contact	Prolonged contact may cause redness, irritation and dry skin. Irritating to skin.
Eye contact	A single exposure may cause the following adverse effects: Corneal damage. Irritation of eyes and mucous membranes.
Acute and chronic health hazards	Known or suspected carcinogen for humans.
Target organs	Eyes Skin Respiratory system, lungs Heart & cardiovascular system Kidneys Liver Central nervous system
SECTION 12: Ecological infor	mation
Ecotoxicity	

12.1. Toxicity

12.2 Demistence and degrade	shills a	
12.2. Persistence and degrada	The product is slowly degradable.	
C 1		
Biodegradation	- Degradation (%) 66: 50 hours Water - DT₅₀ : 14.2 days	
12.3. Bioaccumulative potentia	al	
Bioaccumulative potential	BCF: < 0.91 - 40,	
Partition coefficient	log Pow: 1.25 @ 20°C	
12.4. Mobility in soil		
Mobility	The product is miscible with water and may spread in water systems.	
Henry's law constant	0.0398 Pa m3/mol @ °C	
12.5. Results of PBT and vPvE	3 assessment	
Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.	
12.6. Other adverse effects		
Other adverse effects	Not determined.	
SECTION 13: Disposal consid	erations	
13.1. Waste treatment method	<u>s</u>	
General information	Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Empty Container Warning (where applicable): Empty containers may retain residue and can be dangerous. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSURE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.	
SECTION 14: Transport inform	nation	
14.1. UN number		
UN No. (ADR/RID)	1593	
UN No. (IMDG)	1593	
UN No. (ICAO)	1593	
UN No. (ADN)	1593	
14.2. UN proper shipping name		
Proper shipping name (ADR/RID)	DICHLOROMETHANE	
Proper shipping name (IMDG)	DICHLOROMETHANE	
Proper shipping name (ICAO)	DICHLOROMETHANE	
Proper shipping name (ADN)	DICHLOROMETHANE	
14.3. Transport hazard class(e	as <u>)</u>	

ADR/RID class	6.1
ADR/RID classification code	T1
ADR/RID label	6.1
IMDG class	6.1
ICAO class/division	6.1
ADN class	6.1

Transport labels

6

14.4. Packing group

ADR/RID packing group	Ш
IMDG packing group	Ш
ICAO packing group	Ш
ADN packing group	Ш

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

$\underline{\textbf{14.6. Special precautions for user}}$

EmS	F-A, S-A
ADR transport category	2
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	60
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. 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

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18
	December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of
	Chemicals (REACH) (as amended).
	Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No
	2015/830 (which amends Regulation (EC) No 453/2010 & 1907/2006).

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

General information	Quality Assurance: Main Chemical Co Ltd, Conforms to ISO 9001 : 2015 Cert No. 14130770
	Environmental Standard: Main Chemical Co Ltd, Conforms to ISO 14001 : 2015 Cert No. 14124143
Revision date	29/11/2018
Revision	1
Supersedes date	07/01/2016
SDS number	10368
Risk phrases in full	 R10 Flammable. R40 Limited evidence of a carcinogenic effect. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	 H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H370 Causes damage to organs . H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. Uses Advised Against: The product should not be used for any other purpose other than its intended use. Handling, storage and conditions to avoid instructions must be followed at all times.