SAFETY DATA SHEET

FORMALDEHYDE BLEND

Compilation date: 26/01/2018

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: FORMALDEHYDE BLEND

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

1.3. Details of the supplier of the safety data sheet

Company name: Central Chemical Supplies Limited
44 Hall Road
Donaghcloney
Craigavon
Down
BT66 7LJ
United Kingdom
Tel: 02838 881936
Fax: 02838 882335
Email: Frances@ccsni.co.uk

1.4. Emergency telephone number

Emergency tel: 0044 7872501842

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 2: H330; Acute Tox. 3: H301; Acute Tox. 4: H312; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Carc. 1B: H350; Eye Dam. 1: H318; Muta. 2: H341; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 2: H371

Most important adverse effects: Toxic if swallowed. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. Suspected of causing genetic defects. May cause cancer. May cause damage to organs . Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H301: Toxic if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H330: Fatal if inhaled.

[cont...]

H341: Suspected of causing genetic defects.

H350: May cause cancer.

H371: May cause damage to organs .

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS05: Corrosion

GHS06: Skull and crossbones

GHS08: Health hazard

GHS09: Environmental

Signal words: Danger

Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

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

P284: [In case of inadequate ventilation] wear respiratory protection.

P301+310: IF SWALLOWED: Immediately call a.

P302+350: IF ON SKIN: Gently wash with plenty of soap and water.

P302+352: IF ON SKIN: Wash with plenty of water/.

2.3. Other hazards

Other hazards: Danger of serious damage to health by prolonged exposure.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

FORMALDEHYDE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-001-8	50-00-0	-	Carc. 1B: H350; Muta. 2: H341; Acute Tox. 3: H301; Acute Tox. 3: H311; Acute Tox. 3: H331; Skin Corr. 1B: H314; Skin Sens. 1: H317	10-30%

METHANOL - REACH registered number(s): 01-2119433307-44

200-659-6	67-56-1	-	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370	1-10%

[cont...]

ZINC SULPHATE - REACH registered number(s): 01-2119474684-27

231-793-3	7733-02-0	-	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	1-10%

COPPER SULPHATE

231-847-6	7758-98-7	-	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	1-10%

ALUMINIUM SULPHATE - REACH registered number(s): 01-2119531538-36

233-135-0	10043-01-3	-	Eye Dam. 1: H318	1-10%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

[cont...]

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details. Evacuate the area immediately.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

[cont...]

FORMALDEHYDE...100%

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	2.5 mg/m3	2.5 mg/m3	-	-

METHANOL

UK	266 mg/m3	333 mg/m3	-	-

COPPER SULPHATE

UK	1 mg/m3	2 mg/m3	-	-

DNEL/PNEC Values

Hazardous ingredients:

METHANOL

Type	Exposure	Value	Population	Effect
DNEL	Dermal	40 mg/kg	Workers	-
DNEL	Inhalation	260 mg/m3	Workers	-
DNEL	Dermal	8 mg/kg	Consumers	-
DNEL	Inhalation	50 mg/m3	Consumers	-
PNEC	Sediment	570.4 mg/kg	-	-
PNEC	Soil (agricultural)	23.5 mg/kg	-	-
PNEC	STP	100 mg/L	-	-
PNEC	Fresh water	154 mg/L	-	-
PNEC	Marine water	15.4 mg/L	-	-

COPPER SULPHATE

Type	Exposure	Value	Population	Effect
DNEL	Oral - long term	0.041 mg/kg	Workers	Systemic
DNEL	Oral - short term	0.082 mg/kg	Workers	Systemic
DNEL	Inhalation - Long term (dust)	1 mg/kg	Workers	Systemic
DNEL	Inhalation - Long term (fume)	0.01 mg/kg	Workers	Systemic
DNEL	Dermal - Long term (powder)	136.67 mg/kg	Workers	Systemic
DNEL	Dermal - Long term (liquid)	13.67 mg/kg	Workers	Systemic

ALUMINIUM SULPHATE

Type	Exposure	Value	Population	Effect
DNEL	Oral	3.4 mg/kg	Consumers	Systemic
-	Inhalation	20.2 mg/m3	Workers	Systemic
PNEC	STP	20 mg/l	-	-

[cont...]

-	Fresh water	0.3 µg/l	-	-
-	Marine water	0.03 µg/l	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: The floor of the storage room must be impermeable to prevent the escape of liquids.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Viscosity: Non-viscous

Boiling point/range°C: 117

Flash point°C: >93

Relative density: 1.18

pH: 3

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

[cont...]

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
VAPOURS	RAT	4H LC50	1.1	mg/l
DERMAL	RBT	LD50	270	mg/kg
ORAL	RAT	LD50	100	mg/kg

Hazardous ingredients:

FORMALDEHYDE...100%

ORL	MUS	LD50	42	mg/kg
ORL	RAT	LD50	100	mg/kg
SCU	RAT	LD50	420	mg/kg

METHANOL

IVN	RAT	LD50	2131	mg/kg
ORL	MUS	LD50	7300	mg/kg
ORL	RAT	LD50	5628	mg/kg

ZINC SULPHATE

IVN	RAT	LD50	69900	µg/kg
ORL	MUS	LD50	245	mg/kg
ORL	RAT	LD50	1710	mg/kg

COPPER SULPHATE

IVN	RAT	LD50	48900	µg/kg
ORL	MUS	LD50	369	mg/kg
ORL	RAT	LD50	520	mg/kg

ALUMINIUM SULPHATE

DERMAL	RAT	LD50	>5000	mg/kg
DUST/MIST	RAT	4H LC50	>5000	mg/m3
ORAL	RAT	LD50	2000-5000	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM	Hazardous: calculated
Acute toxicity (ac. tox. 3)	ING	Hazardous: calculated

[cont...]

Acute toxicity (ac. tox. 2)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated
Germ cell mutagenicity	--	Hazardous: calculated
Carcinogenicity	--	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

ALUMINIUM SULPHATE

BROOK TROUT (Salvelinus fontinalis)	NOEC	13	µg/l
BROWN TROUT (Salmo trutta)	96H LC50	15	µg/l
Daphnia magna	48H EC50	>200	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

[cont...]

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2810

14.2. UN proper shipping name

Shipping name: TOXIC LIQUID, ORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes **Marine pollutant:** No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H225: Highly flammable liquid and vapour.

H301: Toxic if swallowed.

H302: Harmful if swallowed.

[cont...]

H311: Toxic in contact with skin.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

H331: Toxic if inhaled.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H370: Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H371: May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.