

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 15/12/2020 Version: 1.0

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

1.1. Product identifier

Product form Product name : Mixture

: DYNE TEST SOLUTIONS TYPE "A" 34-57 DYNES/cm2(mN/m)

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

1.2.1. Relevant identified uses

Main use category

: Industrial use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Dyne Testing Limited 8 The Beech Tree, Elmhurst Business Park Park Lane, Lichfield, WS13 8EX Staffordshire - United Kingdom T +44 (0) 1543 411460 sales@dynetesting.com - http://www.dynetesting.com/

1.4. Emergency telephone number

Emergency number

: +44 (0) 1543 411460 Office hours only.

SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
Classification according to Regulation (EC) No. 1272/20	08 [CLP]	
Acute toxicity (oral), Category 4	H302	
Acute toxicity (inhalation:dust,mist) Category 3	H331	
Reproductive toxicity, Category 1B	H360	
Full text of H statements : see section 16		

Adverse physicochemical, human health and environmental effects

May damage fertility or the unborn child. Toxic if inhaled. Harmful if swallowed.

2.2. Label elements

Labelling according to Regulation (EC) No. 1	272/2008 [CLP]	
Hazard pictograms (CLP)		~
	GHS06	GH

Signal word (CLP) Contains Hazard statements (CLP)



H302 - Harmful if swallowed.
 H331 - Toxic if inhaled.
 H360 - May damage fertility or the unborn child.

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Precautionary statements (CLP)	: P261 - Avoid breathing fume, mist, spray, vapours.
	P280 - Wear eye protection, protective clothing, protective gloves.
	P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures		
Name	Product identifier	
formamide substance listed as REACH Candidate	(CAS-No.) 75-12-7 (EC-No.) 200-842-0 (EC Index-No.) 616-052-00-8	

substance listed as REACH Candidate	(EC-No.) 200-842-0 (EC Index-No.) 616-052-00-8 (REACH-no) 01-2119496064-35		
2-ethoxy Ethanol substance listed as REACH Candidate (2- Ethoxyethanol)	(CAS-No.) 110-80-5	40 – 60	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:dust,mist), H331 Repr. 1B, H360FD

%

1 - 20

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Repr. 1B, H360D

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Call a doctor. Rinse skin with water/shower. Take off immediately all contaminated clothing. Rinse eyes with water as a precaution. Rinse mouth. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 : Toxic if inhaled. Harmful if swallowed. May damage fertility. May damage the unborn child. : May be fatal if inhaled. Irritation to the respiratory tract. : May be harmful in contact with skin. May cause irritation to skin. : May cause eye irritation. : Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically. Call a doctor.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Use extinguishing media appropriate for surrounding fire.Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Not flammable. No direct explosion hazard. Toxic fumes may be released. 	
5.3. Advice for firefighters		
Precautionary measures fire Firefighting instructions	 Exercise caution when fighting any chemical fire. Fight fire with normal precautions from a reasonable distance. Avoid fire-fighting water entering the environment. 	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protectiv	6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Ventilate area.		
6.1.1. For non-emergency personnel			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing fume, mist, spray, vapours.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information		

refer to section 8: "Exposure controls/personal protection".

: Ventilate area. Evacuate unnecessary personnel.

6.2. Environmental precautions

Emergency procedures

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
For containment	: Absorb spillage.	
Methods for cleaning up	 Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). 	
Other information	: Dispose of materials or solid residues at an authorized site.	

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing fume, mist, spray, vapours. Avoid contact during pregnancy/while nursing. Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Storage conditions Incompatible products Incompatible materials Packaging materials	 Store in a well-ventilated place. Keep container tightly closed. Store locked up. Strong acids. Strong bases. Strong oxidizing agents. Heat sources. Keep only in original container.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

formamide (75-12-7)		
United Kingdom - Occupational Exposure Limits		
Local name	Formamide	
WEL TWA (mg/m³)	37 mg/m³	
WEL TWA (ppm)	20 ppm	
WEL STEL (mg/m³)	56 mg/m³	
WEL STEL (OEL STEL) [ppm]	30 ppm	
Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Use spark-/explosionproof appliances and lighting system.

Personal protective equipment:

Avoid all unnecessary exposure. PPE compliant to the recommended EN/ISO or equivalent standards should be selected.

Materials for protective clothing:

Wear suitable coveralls to prevent exposure to the skin

Hand protection:

Protective gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection. Where exposure through inhalation may occur from handling or use, respiratory protection equipment is required. Exposure limits for airborne contaminants must not be exceeded.

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties	
9.1. Information on basic ph	ical and chemical properties
Physical state Colour Odour Odour threshold	 Liquid Colourless. Odourless. No data available

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pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Solubility Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties	 No data available No data available -90 °C No data available 135 °C > 60 (60 – 93) °C No data available No data available No data available Not applicable 5.1 hPa at 20 °C No data available 0.93 completely miscible. No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. copper.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicologica	Il effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	Harmful if swallowed.Not classifiedToxic if inhaled.	
DYNE TEST SOLUTIONS TYPE "	A" 34-57 DYNES/cm2(mN/m)	

DYNE TEST SOLUTIONS TYPE "A" 34-57 DYNES/cm2(mN/m)		
ATE CLP (oral) 1000 mg/kg bodyweight		
ATE CLP (dust,mist)	1 mg/l/4h	

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formamide (75-12-7)	
LD50 oral rat	5325 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	21 mg/l/4h
Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:	Not classified Not classified Not classified Not classified Not classified
Reproductive toxicity :	May damage fertility or the unborn child.
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Hazardous to the aquatic environment, short-term (acute)	: Not classified	
Hazardous to the aquatic environment, long-term (chronic)	: Not classified	
formamide (75-12-7)		

LC50 fish 1	6.569 mg/l	
ErC50 (algae)	> 500 mg/l	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
formamide (75-12-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-ethoxy Ethanol (110-80-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal should be according to local, state or national legislation.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance
Froduct/Fackaging disposal recommendations	with local, regional, national and/or international regulation.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport Not applicable Transport by sea Not applicable Air transport Not applicable Inland waterway transport Not applicable Rail transport Not applicable

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

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

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration \geq 0.1% or with a lower specific limit: Formamide (EC 200-842-0, CAS 75-12-7), 2-Ethoxyethanol (CAS 110-80-5)

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

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Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BLV	Biological limit value	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
EN	European Standard	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Flam. Liq. 3	Flammable liquids, Category 3	

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Repr. 1B	Reproductive toxicity, Category 1B
Repr. 1B	Reproductive toxicity, Category 1B
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H331	Toxic if inhaled.
H360	May damage fertility or the unborn child.
H360D	May damage the unborn child.
H360FD	May damage fertility. May damage the unborn child.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.