

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law. Issue date: 06/04/2024 Revision date: 28/08/2024 Supersedes: 06/04/2024 Version: 1.1

SECTION 1: Identification of the subst	tance/mixture and of the company/undertaking
1.1. Product identifier	
Product form PRODUCT NAME	: Mixture : DYNE TEST SOLUTIONS ISO TYPE 34-57 DYNES/cm2(mN/m)
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category Use of the substance/mixture	 Professional use Ink Dyne Testing
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety da	ita sheet
Intertronics Unit 12a Station Field Industrial Estate, Banbury Ro OX5 1JD Kidlington – Oxfordshire United Kingdom T +44 (0)1865 842842 orders@intertronics.co.uk - https://www.intertronics	
1.4. Emergency telephone number	
Emergency number	: +44 (0)1865 842842 Office hours only.
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	ture
Classification according to GB CLP (SI 2019:720	0 as amended)
Acute toxicity (oral), Category 4 Acute toxicity (inhalation:dust,mist) Category 3 Reproductive toxicity, Category 1B Full text of H- and EUH-statements: see section 16	H302 H331 H360FD
Adverse physicochemical, human health and en No additional information available	nvironmental effects
2.2. Label elements	
Labelling according to GB CLP (SI 2019:720 as	amended)
Hazard pictograms (GB CLP)	GHS06 GHS08
Signal word (GB CLP)	: Danger
Contains Hazard statements (GB CLP)	 2-ethoxy Ethanol H302 - Harmful if swallowed. H331 - Toxic if inhaled. H360ED May demoge for tility. May demoge the unbern shild.
Precautionary statements (GB CLP)	 H360FD - May damage fertility. May damage the unborn child. P201 - Obtain special instructions before use. P202 Do not bondlo until all optate presentions have been read and understand

P202 - Do not handle until all safety precautions have been read and understood.

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- P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
- P264 Wash hands, forearms and face thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.

2.3. Other hazards Component Substance(s) not meeting the PBT criteria of UK 2-ethoxy Ethanol (110-80-5), formamide (75-12-7) REACH regulation, in accordance with Annex XIII Substance(s) not meeting the vPvB criteria of UK 2-ethoxy Ethanol (110-80-5), formamide (75-12-7) REACH regulation, in accordance with Annex XIII Component Substance(s) not included in the list established in 2-ethoxy Ethanol(110-80-5), formamide(75-12-7) accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
2-ethoxy Ethanol substance listed as UK REACH candidate (2- ethoxyethanol)	CAS-No.: 110-80-5 EC-No.: 203-804-1 UK Index-No.: 603-012-00-X	50 – 60	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) Repr. 1B, H360FD
formamide substance listed as UK REACH candidate	CAS-No.: 75-12-7 EC-No.: 200-842-0 UK Index-No.: 616-052-00-8	50 – 60	Repr. 1B, H360D

Full text of H- and EUH-statements: see section 16

4.2 Most important symptoms and effects, both acute

SECTION 4: First aid measures

4.1. Description of first aid measures

No additional information available

4.2. MOSt important symptoms and en	lects, both acute and delayed
Symptoms/effects	: Toxic if inhaled. Harmful if swallowed. May damage fertility. May damage the unborn child.
Symptoms/effects after inhalation	: May be fatal if inhaled. Irritation to the respiratory tract.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause irritation to skin.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Explosion hazard	: No direct explosion hazard.
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.

SECTION 6: Accidental release mea	asures
6.1. Personal precautions, protective ec	quipment 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".
6.1.2. For emergency responders	
Emergency procedures	: Ventilate area. Evacuate unnecessary personnel.
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containme	ent and cleaning up
For containment	: Absorb spillage.
6.4. Reference to other sections	

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage	, including any incompatibilities
Incompatible products Incompatible materials Packaging materials	Strong acids. Strong bases. Strong oxidizing agents.Heat sources.Keep only in original container.
7.3. Specific end use(s)	

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2-ethoxy Ethanol (110-80-5)		
United Kingdom - Occupational Exposure Limits		
Local name	2-Ethoxyethanol	
WEL TWA (OEL TWA)	8 mg/m³	
	2 ppm	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
formamide (75-12-7)		
United Kingdom - Occupational Exposure Limits		
Local name	Formamide	
WEL TWA (OEL TWA)	37 mg/m ³	
	20 ppm	
WEL STEL (OEL STEL)	56 mg/m³	
	30 ppm	
Regulatory reference	EH40/2005 (Third edition, 2018). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. PPE compliant to the recommended EN/ISO or equivalent standards should be selected. **Personal protective equipment symbol(s):**



8.2.2.1. Eye and face protection

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses, Safety goggles	Droplet, mist	Clear, With side shields	EN 166

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8.2.2.2. Skin protection

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves	Nitrile rubber (NBR)	4 (> 120 minutes)	0.5	2 (< 1.5)	EN ISO 374

Other skin protection

Materials for protective clothing:

Wear suitable coveralls to prevent exposure to the skin

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour	: Liquid : Colourless
001041	
Odour	: Odourless.
Odour threshold	: Not available
рН	: Not available
Melting point	: -90 °C
Freezing point	: Not available
Boiling point	: 135 °C
Flash point	: > 60 (60 – 93) °C
Explosive limits	: Not available
Vapour pressure	: 5.1 hPa at 20 °C
Vapour pressure at 50°C	: Not available
Relative vapour density at 20°C	: Not available
Relative density	: 0.93
Density	: Not available
Solubility	: completely miscible.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: Not available
Explosive properties	: Not available

9.2. Other information

Particle characteristics

: Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

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10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
Strong acids. Strong bases. Strong oxidizing agents. copper.
10.6. Hazardous decomposition products

No additional information available

11.1. Information on toxicological effects	
Acute toxicity (dermal) :	Harmful if swallowed. Not classified Inhalation:dust,mist: Toxic if inhaled.
DYNE TEST SOLUTIONS ISO TYPE 34-57 DY	/NES/cm2(mN/m)
ATE UK (oral)	1000 mg/kg bodyweight
ATE UK (dust,mist)	1 mg/l/4h
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
Skin corrosion/irritation :	Not classified
formamide (75-12-7)	
рН	4 – 10 at 200 g/l at 20 C
Serious eye damage/irritation :	Not classified
formamide (75-12-7)	
рН	4 – 10 at 200 g/l at 20 C
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	May damage fertility. May damage the unborn child.
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
11.2. Information on other hazards	

11.2.2. Other information

Potential adverse human health effects and	:	Based on available data, the classification criteria are not met
symptoms		

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SECTION 12: Ecological information		
12.1. Toxicity		
Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic)		
formamide (75-12-7)		
LC50 - Fish [1]	6.569 mg/l	
ErC50 algae	> 500 mg/l	
12.2. Persistence and degradability		
DYNE TEST SOLUTIONS ISO TYPE 34-57 DY	NES/cm2(mN/m)	
Persistence and degradability	Not established.	
2-ethoxy Ethanol (110-80-5)		
Persistence and degradability	Rapidly degradable	
formamide (75-12-7)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
DYNE TEST SOLUTIONS ISO TYPE 34-57 DY	NES/cm2(mN/m)	
Bioaccumulative potential	Not established.	
12.4 Mobility in soil		

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
2-ethoxy Ethanol (110-80-5)	This product does not contain substances at ≥0.1% that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at ≥0.1% that meet the vPvB criteria of UK REACH regulation, annex XIII
formamide (75-12-7)	This product does not contain substances at ≥0.1% that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at ≥0.1% that meet the vPvB criteria of UK REACH regulation, annex XIII

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional waste regulation Product/Packaging disposal recommendations	 Disposal should be according to local, state or national legislation. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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Ecological waste information HP Code

 Avoid release to the environment.
 HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

SECTION 14: Transport information

accordance with ADR / IMD	OG / IATA / ADN / RID			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Transport document descri	iption			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard c	lass(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 haz	ards	·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary informatio	n 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

UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

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UK REACH Candidate List (SVHC)

Contains substance(s) listed on the UK REACH Candidate List in concentrations ≥ 0.1 % or SCL: 2-ethoxyethanol (EC 203-804-1, CAS 110-80-5), Formamide (EC 200-842-0, CAS 75-12-7)

GB PIC regulation (Prior Informed Conset)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

Drug Precursors Regulation (273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

15.1.2. Other information

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes (UK)		
Section	Changed item	Comments
	Supersedes	Added
	Revision date	Added
1.1	Name	Modified

Data sources

 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
 None.

Other information

Full text of H- and EUH-statements:

Tur text of the and correstatements.		
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	
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.	

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Full text of H- and EUH-statements:		
H360FD	May damage fertility. May damage the unborn child.	
Repr. 1B	Reproductive toxicity, Category 1B	

Safety Data Sheet (SDS), UK

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.