



SAFETY DATA SHEET

Version #: 04

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

1.1. Product identifier

Trade name or designation of the mixture INK EFI VUTEK H SERIES LT YELLOW

Registration number -

UFI: EU: 6GMT-05KT-Y64S-M50E

Synonyms None.

Product code 45174467

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

Identified uses Printing ink

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company EFI UK Ltd
Address Bowling Old Lane
Bradford
West Yorkshire
BD5 7JL
United Kingdom

Phone Number - General +44 1274 307704

**Phone Number -
Emergency**

1.4. Emergency telephone number

3E Global Incident Response +1 760 476 3962 Access Code: 57138. Available 24/7/365

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Austria National Poisons Information Centre +431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Great Britain General emergency 112 or 999 SDS/Product information may not be available for the Emergency Service.

Italy CAV Policlinico "A. Gemelli" 06-3054343 <https://preparatipericolosi.iss.it/cav.aspx>: (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Belgium National Poisons Control Centre 070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Bulgaria National Toxicological Information Centre +359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Croatia Poisons Information Centre +385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Cyprus Poison Centre 1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Czech Republic National Poisons Information Centre +420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons Control Centre +45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

1.4. Emergency telephone number

Estonia National Poisons Information Centre	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland National Poison Information Centre	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
France National Poisons Control Centre	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Greece Poison Information Centre telephone number	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Iceland Poison Centre	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Latvia Emergency medical aid	113
Latvia Poison and Drug Information Centre	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Centre (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Centre	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Portugal Poison Centre	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Centre	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Spain Toxicology Information Service	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Centre	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Switzerland Tox Info Suisse	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies. The classification of the substance or mixture has been performed in accordance with ABNT NBR 14725.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Reproductive toxicity (fertility, the unborn child)	Category 1B	H360FD - May damage fertility. May damage the unborn child.
Specific target organ toxicity - repeated exposure	Category 2	H373 - May cause damage to organs through prolonged or repeated exposure.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.
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2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

UFI:

EU: 6GMT-05KT-Y64S-M50E

Contains:

2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester, Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, Isobornyl acrylate, 2-Phenoxyethyl acrylate, N-vinyl Caprolactam, Caprolactone acrylate, Neopentylglycol Propoxylated Diacrylate, Phenol, Ethoxylated, Esters With Acrylic Acid, tetrahydro-2-furyl-methanol; tetrahydrofurfuryl alcohol, 2-hydroxyethyl acrylate, Ester Of Acrylic Acid And [polymer Of 2-(chloromethyl)oxirane / 4,4'-isopropylidenediphenol], Ethylene Glycol Diacrylate, Glycerol, Propoxylated, Esters With Acrylic Acid

Hazard pictograms



Signal word

Danger

Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist/vapours.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P301 + P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330	Rinse mouth.
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.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Storage

P405	Store locked up.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information

Restricted to professional users. 20,37 % of the mixture consists of component(s) of unknown acute oral toxicity. 2,08 % of the mixture consists of component(s) of unknown acute dermal toxicity. 79,64 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 28,17 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards

The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester	30 - < 40	2399-48-6 219-268-7	01-2120738396-46-XXXX	-	Classification: Acute Tox. 4;H302;(ATE: 882 mg/kg bw), Skin Corr. 1;H314, Eye Dam. 1;H318, Skin Sens. 1;H317, Repr. 1B;H360, Aquatic Chronic 2;H411
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	10 - < 20	75980-60-8 278-355-8	01-2119972295-29-XXXX	015-203-00-X	Classification: Skin Sens. 1B;H317, Repr. 1B;H360Fd, Aquatic Chronic 2;H411
Isobornyl acrylate	10 - < 20	5888-33-5 227-561-6	01-2119957862-25-XXXX	607-756-00-6	Classification: Eye Irrit. 2;H319, Skin Sens. 1A;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410
2-Phenoxyethyl acrylate	5 - < 10	48145-04-6 256-360-6	01-2119980532-35-XXXX	-	Classification: Eye Irrit. 2;H319, Skin Sens. 1;H317, Aquatic Chronic 2;H411
N-vinyl Caprolactam	5 - < 10	2235-00-9 218-787-6	01-2119977109-27-XXXX	-	Classification: Acute Tox. 4;H302;(ATE: 1114 mg/kg bw), Acute Tox. 4;H312;(ATE: 1700 mg/kg bw), Eye Irrit. 2;H319, Skin Sens. 1B;H317, STOT RE 1;H372
Caprolactone acrylate	1 - < 3	110489-05-9 -	-	-	Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317
Neopentylglycol Propoxylated Diacrylate	< 1	84170-74-1 -	01-2119970213-43-XXXX	607-133-00-9	Classification: Skin Sens. 1B;H317
Phenol, Ethoxylated, Esters With Acrylic Acid	< 1	56641-05-5 500-133-9	01-2120752382-57-XXXX	-	Classification: Skin Sens. 1A;H317, Aquatic Chronic 2;H411
tetrahydro-2-furyl-methanol; tetrahydrofurfuryl alcohol	< 1	97-99-4 202-625-6	01-2119968921-26-XXXX	603-061-00-7	Classification: Eye Irrit. 2;H319, Repr. 1B;H360Df
2-hydroxyethyl acrylate	< 0,3	818-61-1 212-454-9	01-2119459345-34-XXXX	607-072-00-8	Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 3;H311;(ATE: 300 mg/kg bw), Skin Corr. 1B;H314, Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 3;H412 Specific Concentration Limits: Skin Sens. 1;H317: C ≥ 0.2 %
Ester Of Acrylic Acid And [polymer Of 2-(chloromethyl)oxirane / 4,4'-isopropylidenediphenol]	< 0,3	55818-57-0 500-130-2	01-21194900020-53-XXXX	-	Classification: Skin Sens. 1;H317, Aquatic Chronic 2;H411
Ethylene Glycol Diacrylate	< 0,3	2274-11-5 218-886-4	-	607-133-00-9	Classification: Acute Tox. 3;H301;(ATE: 100 mg/kg bw), Acute Tox. 3;H311;(ATE: 300 mg/kg bw), Eye Dam. 1;H318, Skin Sens. 1;H317 Specific Concentration Limits: STOT SE 3;H335: C ≥ 10 %
Glycerol, Propoxylated, Esters With Acrylic Acid	< 0,3	52408-84-1 500-114-5	01-2119487948-12-XXXX	-	Classification: Eye Irrit. 2;H319, Skin Sens. 1;H317
The remaining ingredients are either non-hazardous or below reportable limits	20 - < 30				

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

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

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

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

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing media

None known.

5.2. Special hazards arising from the substance or mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear suitable protective equipment.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapours. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tonnes; Upper-tier requirements = 500 tonnes)

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	STEL	10 mg/m3
		2 ppm
	TLV	5 mg/m3
		1 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	STEL	10 mg/m3
		2 ppm
	TWA	5 mg/m3
		1 ppm

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	TWA	5 mg/m3
		1 ppm

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	TWA	0,5 mg/m3

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	STEL	10 mg/m3
		2 ppm
	TWA	5 mg/m3
		1 ppm

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value
2-hydroxyethyl acrylate (CAS 818-61-1)	STEL	10 mg/m3
		2 ppm

Components	Type	Value
	TWA	5 mg/m3 1 ppm
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedures.	
Derived no effect levels (DNELs)	Not available.	
Predicted no effect concentrations (PNECs)	Not available.	
Exposure guidelines		
Denmark GV: Skin designation		
2-hydroxyethyl acrylate (CAS 818-61-1)	Can be absorbed through the skin.	
Estonia OELs: Skin designation		
2-hydroxyethyl acrylate (CAS 818-61-1)	Can be absorbed through the skin.	
Iceland OELs: Skin designation		
2-hydroxyethyl acrylate (CAS 818-61-1)	Can be absorbed through the skin.	
Lithuania OELs: Skin designation		
2-hydroxyethyl acrylate (CAS 818-61-1)	Can be absorbed through the skin.	
Sweden Threshold Limit Values: Skin designation		
2-hydroxyethyl acrylate (CAS 818-61-1)	Can be absorbed through the skin.	
Exposure controls		
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.	
Individual protection measures, such as personal protective equipment		
General information		
Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.		
Eye/face protection		
Chemical respirator with organic vapour cartridge and full facepiece.		
Skin protection		
- Hand protection		
Wear appropriate chemical resistant gloves.		
- Other		
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection		
Chemical respirator with organic vapour cartridge and full facepiece.		
Thermal hazards		
Wear appropriate thermal protective clothing, when necessary.		
Hygiene measures		
Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.		
Environmental exposure controls		
Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.		
SECTION 9: Physical and chemical properties		
Information on basic physical and chemical properties		
Physical state		
Liquid.		
Form		
Liquid.		
Colour		
Yellow		
Odour		
Slight.		
Melting point/freezing point		
Not available.		
Boiling point or initial boiling point and boiling range		
Not available.		
Flammability		
Not applicable.		
Upper/lower flammability or explosive limits		
Explosive limit - lower (%)		
Not available.		

Explosive limit – upper (%)	Not available.
Flash point	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	0,21 hPa estimated
Density and/or relative density	
Density	1,07 g/cm3 estimated
Vapour density	Not available.
Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristics	
Specific gravity	1,07 estimated
VOC	35,6 % Using EU definition of VOC estimated

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	None known.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	Harmful if swallowed.	
Components	Species	Test Results
2-hydroxyethyl acrylate (CAS 818-61-1)		
<u>Acute</u>		
Oral		
LD50	Rat	>= 500 mg/kg
2-Phenoxyethyl acrylate (CAS 48145-04-6)		
<u>Acute</u>		
Dermal		
<i>Liquid</i>		
LD50	Rat	2000 mg/kg, 14 days

Components	Species	Test Results
Oral LD50	Rat	5000 mg/kg
2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester (CAS 2399-48-6)		
Acute Oral LD50	Rat	882 mg/kg
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS 75980-60-8)		
Acute Dermal LD50	Rat	> 2000 mg/kg, 24 Hours
Oral LD50	Rat	> 5000 mg/kg
Glycerol, Propoxylated, Esters With Acrylic Acid (CAS 52408-84-1)		
Acute Dermal LD50	Rabbit	> 2000 mg/kg, 24 Hours
Isobornyl acrylate (CAS 5888-33-5)		
Acute Dermal LD50	Rabbit	> 3000 mg/kg, 24 Hours
Oral LD50	Rat	4350 mg/kg
Neopentylglycol Propoxylated Diacrylate (CAS 84170-74-1)		
Acute Dermal <i>Liquid</i> LD50	Rabbit	> 2000 mg/kg
Oral <i>Liquid</i> LD50	Rat	> 5000 mg/kg
N-vinyl Caprolactam (CAS 2235-00-9)		
Acute Dermal LD50	Rabbit	1700 mg/kg, 24 Hours
Oral LD50	Rat	1114 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitisation	Not a respiratory sensitiser.	
Skin sensitisation	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	No data available to indicate product or any components present at greater than 0.1% are carcinogenic. Risk of cancer cannot be excluded with prolonged exposure.	
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)		
tetrahydro-2-furyl-methanol; tetrahydrofurfuryl alcohol (CAS 97-99-4)		
Reproductive toxicity	May damage fertility. May damage the unborn child.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Mixture versus substance information	No information available.	

11.2. Information on other hazards

Endocrine disrupting properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

Other information

Not available.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Components	Species		Test Results
2-hydroxyethyl acrylate (CAS 818-61-1)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	0,78 mg/l, 48 hours
Fish	LC50	Pimephales promelas	3,61 mg/l, 96 hours
2-Phenoxyethyl acrylate (CAS 48145-04-6)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	1,21 mg/l, 48 hours
2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester (CAS 2399-48-6)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	37,7 mg/l, 48 hours
Fish	LC50	Danio rerio	7,32 mg/l, 96 hours
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS 75980-60-8)			
Acute			
Other	EC10	Pseudokirchnerella subcapitata	1,56 mg/l, 72 h
	EC50	Pseudokirchnerella subcapitata	> 2,01 mg/l, 72 hours
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	3,53 mg/l, 48 hours
Fish	LC50	Cyprinus carpio	1,4 mg/l, 96 hours
		Danio rerio	1,4 mg/l, 96 hours
Ester Of Acrylic Acid And [polymer Of 2-(chloromethyl)oxirane / 4,4'-isopropylidenediphenol] (CAS 55818-57-0)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	> 16 mg/l, 48 hours
Fish	LC50	Cyprinus carpio	> 0,082 mg/l, 96 hours
Glycerol, Propoxylated, Esters With Acrylic Acid (CAS 52408-84-1)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	91,4 mg/l, 48 hours
Fish	LC50	Danio rerio	5,74 mg/l, 96 hours
Isobornyl acrylate (CAS 5888-33-5)			
Aquatic			
Acute			
Fish	LC50	Danio rerio	0,704 mg/l, 96 hours
Neopentylglycol Propoxylated Diacrylate (CAS 84170-74-1)			
Aquatic			
Acute			
Algae	NOAEL	Algae	1 mg/l, 72 h
Crustacea	NOAEL	Daphnia magna	25,3 mg/l, 48 h
N-vinyl Caprolactam (CAS 2235-00-9)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 hours

Components	Species		Test Results
Fish	LC50	Danio rerio	307 mg/l, 96 hours
Phenol, Ethoxylated, Esters With Acrylic Acid (CAS 56641-05-5)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	1,21 mg/l, 48 hours
tetrahydro-2-furyl-methanol; tetrahydrofurfuryl alcohol (CAS 97-99-4)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	> 91,7 mg/l, 48 hours
Fish	LC50	Oryzias latipes	> 101 mg/l, 96 hours
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
12.3. Bioaccumulative potential			
Partition coefficient			
n-octanol/water (log Kow)			
2-hydroxyethyl acrylate			-0,21
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	No data available.		
12.5. Results of PBT and vPvB assessment	Not available.		
12.6. Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.		
12.7. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester; Isobornyl acrylate)
14.3. Transport hazard class(es)	
Class	9
Subsidiary hazard	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	-
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester; Isobornyl acrylate)

14.3. Transport hazard class(es)

Class 9
Subsidiary hazard -
Label(s) 9

14.4. Packing group III

14.5. Environmental hazards No.

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester; Isobornyl acrylate)

14.3. Transport hazard class(es)

Class 9
Subsidiary hazard -
Label(s) 9

14.4. Packing group III

14.5. Environmental hazards No.

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester; Isobornyl Acrylate)

14.3. Transport hazard class(es)

Class 9
Subsidiary hazard -

14.4. Packing group III

14.5. Environmental hazards No.

ERG Code 9L

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-propenoic Acid, (tetrahydro-2-furanyl)methyl Ester; Isobornyl Acrylate), MARINE POLLUTANT

14.3. Transport hazard class(es)

Class 9
Subsidiary hazard -

14.4. Packing group III

14.5. Environmental hazards

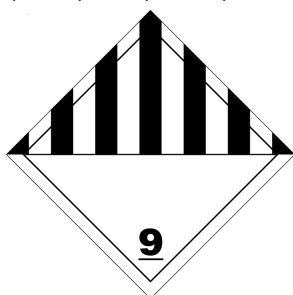
Marine pollutant Yes

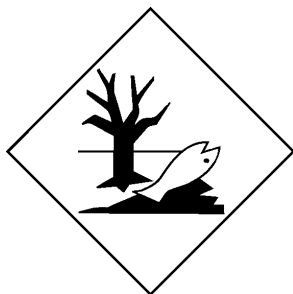
EmS F-A, S-F

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk according to IMO instruments Not established.

ADN; ADR; IATA; IMDG; RID





General information

IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS 75980-60-8)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 75
(CAS 75980-60-8)

tetrahydro-2-furyl-methanol; tetrahydrofurfuryl alcohol (CAS 97-99-4)

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (CAS 75980-60-8)

tetrahydro-2-furyl-methanol; tetrahydrofurfuryl alcohol (CAS 97-99-4)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

Ethylene Glycol Diacrylate (CAS 2274-11-5)

Lésions eczématiformes de mécanisme allergique 65

Isobornyl acrylate (CAS 5888-33-5)

Lésions eczématiformes de mécanisme allergique 65

Neopentylglycol Propoxylated Diacrylate (CAS 84170-74-1)

Lésions eczématiformes de mécanisme allergique 65

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

VLE: Exposure Limit Value.

VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H301 Toxic if swallowed.

H302 Harmful if swallowed.

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.

H360 May damage fertility or the unborn child.

H360Df May damage the unborn child. Suspected of damaging fertility.

H360Fd May damage fertility. Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

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.

H412 Harmful to aquatic life with long lasting effects.

Revision information

SECTION 4: First aid measures: Eye contact

SECTION 8: Exposure controls/personal protection: Hygiene measures

Training information

Follow training instructions when handling this material.

Disclaimer

EFI UK Ltd. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.