















SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

HumiSeal UV40

of the mixture

Registration number

Synonyms **Product code** None. EX0000-4191

Issue date

09-August-2021

Version number

06

Revision date

05-August-2022 19-July-2022

Supersedes date

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

Identified uses

Protective coating for printed circuit board. Industrial use.

Uses advised against

No other uses are advised.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name

HUMISEAL EUROPE LTD.

Address

505 Eskdale Road

Winnersh

Wokingham Berkshire RG41 5TU

Division

A CHASE CORPORATION COMPANY

Telephone

General Assistance

+44 (0) 118 944 2333

e-mail

europetechsupport@chasecorp.com

Contact person

Not available.

1.4. Emergency telephone number

Chemtrec U.K. +44 (0) 870 820 0418

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.

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

Health hazards

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2

H315 - Causes skin irritation. H319 - Causes serious eye

irritation.

Category 1

H317 - May cause an allergic skin

reaction.

Specific target organ toxicity - single

Category 3 respiratory tract irritation

H335 - May cause respiratory

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life

irritation.

Environmental hazards

exposure

Skin sensitisation

Hazardous to the aquatic environment, acute Category 1

aquatic hazard

Hazardous to the aquatic environment, Category 1

long-term aquatic hazard

with long lasting effects.

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Hazard summary

Causes serious eye irritation. Causes skin irritation. May cause irritation to the respiratory system. May cause an allergic skin reaction. Dangerous for the environment if discharged into

watercourses. Occupational exposure to the substance or mixture may cause adverse health

effects.

2.2. Label elements

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

Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate, Exo-1,7,7-trimethylbicyclo[2,2,1]hept-2-yl Contains:

acrylate, Hexamethylene diisocyanate, oligomers, Isocyanatoacrylate, n-Butyl acetate, phenyl

bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Hazard pictograms



Signal word	Warning
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Hazard statements

Causes skin irritation. H315

May cause an allergic skin reaction. H317 Causes serious eye irritation. H319 May cause respiratory irritation. H335

Very toxic to aquatic life. H400

Very toxic to aquatic life with long lasting effects. H410

Precautionary statements

Prevention

Avoid breathing mist/vapours. P261 Wash thoroughly after handling. P264 Avoid release to the environment. P273 Wear eye protection/face protection. P280

Wear protective gloves. P280

Response

Call a POISON CENTRE/doctor if you feel unwell. P312

If skin irritation or rash occurs: Get medical advice/attention. P333 + P313 If eve irritation persists: Get medical advice/attention. P337 + P313 P362 + P364 Take off contaminated clothing and wash it before reuse.

Collect spillage. P391 Not available. Storage Not available.

Supplemental label information

2.67 % of the mixture consists of component(s) of unknown acute dermal toxicity. 48.86 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. EUH208 - Contains phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide. May produce an allergic reaction.

2.3. Other hazards

Disposal

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006. Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	40 - < 50	5888-33-5 227-561-6	01-2119957862-25	607-133-00-9	
Classification		;H315, Eye Irrit. 2;H3 ute 1;H400, Aquatic	319, Skin Sens. 1;H317, ST Chronic 1;H410	OT SE 3;H335,	
Isocyanatoacrylate	40 - < 50	Unknown	-	-	
Classification	Skin Sens.	1;H317, Aquatic Ch	ronic 3;H412		
Hexamethylene diisocyanate, oligomers	3 - < 5	28182-81-2 500-060-2	01-2119488934-20	-	#
Classification	: Acute Tox.	4;H332, Skin Sens.	1;H317, STOT SE 3;H335		
2-hydroxy-2-methylpropiophenone	1 - < 3	7473-98-5 231-272-0	-	-	

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Classification: Acute Tox. 4;H302

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
n-Butyl acetate	1 - < 3	123-86-4 204-658-1	-	607-025-00-1	#
Classification:	Flam. Liq.	3;H226, STOT SE 3;	H336		
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	< 1	162881-26-7 423-340-5	-	015-189-00-5	
Classification:	Skin Sens	. 1A;H317			
Tosyl isocyanate	< 1	4083-64-1 223-810-8	01-2119980050-47	615-012-00-7	#
Classification:	Skin Irrit. 2 3;H335	2;H315, Eye Irrit. 2;H3	319, Resp. Sens. 1;H334, S	TOT SE	
1,7,7-trimethyltricyclo[2.2.1.02,6]hept ane	< 0.3	508-32-7 208-083-7	-	-	
Classification:	Aquatic A	cute 1;H400, Aquatic	Chronic 1;H410		
Camphene	< 0.3	79-92-5 201-234-8	-	-	
Classification:	Flam. Sol. Chronic 1;		H319, Aquatic Acute 1;H400	, Aquatic	
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphi nate	< 0.2	84434-11-7 282-810-6	01-2119987994-10	-	
Classification:	Skin Sens	. 1B;H317, Aquatic C	hronic 2;H411		

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This substance has been assigned Union workplace exposure limit(s).

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical General information

personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash

contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison

centre or doctor/physician if you feel unwell.

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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an

allergic skin reaction. Dermatitis. Rash.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. 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

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

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5.3. Advice for firefighters

Special protective

equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

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

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate protective equipment and clothing during clean-up. Avoid breathing 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. Avoid breathing mist/vapours. Ensure adequate ventilation. 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 product from entering drains.

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

Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials

(see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	
Hexamethylene diisocyanate, oligomers (CAS 28182-81-2)	STEL	0.07 mg/m3	
	TWA	0.02 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	966 mg/m3	
		200 ppm	
	TWA	724 mg/m3	
		150 ppm	
Tosyl isocyanate (CAS 4083-64-1)	STEL	0.07 mg/m3	
,	TWA	0.02 mg/m3	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC. 2000/39/EC. 2006/15/EC. 2009/161/EU. 2017/164/EU Components

Components	туре	value	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	

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Biological limit values

UK. EH40 Biological Monitoring Guidance Values (BMGVs)					
Components	Value	Determinant	Specimen	Sampling Time	
Hexamethylene diisocyanate, oligomers (CAS 28182-81-2)	1 umol/mol	Isocyanate-deri ved diamine	Creatinine in urine	*	
Tosyl isocyanate (CAS 4083-64-1)	1 umol/mol	Isocyanate-deri ved diamine	Creatinine in urine	*	
* - For sampling details, p	lease see the sourc	e document.			

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. 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.

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

Thermal hazards Not applicable.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

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

9.1. Information on basic physical and chemical properties

Appearance

Liquid. Physical state Not available. **Form** Not available. Colour Not available. Odour Not available. **Odour threshold** Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

275 °C (527 °F) estimated

range

Flash point

75.0 °C (167.0 °F) Closed cup

Evaporation rate Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits Explosive limit - lower (%) Not available.

Explosive limit - upper

Not available.

(%)

0.003 kPa estimated Vapour pressure

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Vapour density Not available. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Solubility (other) Not available. Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. Viscosity Not explosive. **Explosive properties** Oxidising properties Not oxidising.

9.2. Other information

1.05 - 1.15 a/cm³ Density 430 - 765 mm²/s Kinematic viscosity 23 °C (73.4 °F) Kinematic viscosity

temperature

VOC 2.67 %

SECTION 10: Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. 10.1. Reactivity

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Not available.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

Causes serious eye irritation. Eye contact

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred **Symptoms**

vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an

allergic skin reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

Acute toxicity Not known.

Components **Species Test Results**

2-hydroxy-2-methylpropiophenone (CAS 7473-98-5)

Acute **Dermal**

LD50 Rat 6929 mg/kg

Oral

LD50 Rat 1694 mg/kg

Camphene (CAS 79-92-5)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 > 25 mg/l, 4 Hours

Oral

LD50 Rat > 2000 mg/kg

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Components **Species Test Results** Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (CAS 84434-11-7) Acute Dermal LD50 >= 2000 mg/kg, 24 Hours Rat Inhalation Vapour LC50 Rat 2.7e-005 mg/l, 7 Hours Oral LD50 Rat > 5000 mg/kg Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (CAS 5888-33-5) Dermal > 3000 mg/kg LD50 Rabbit Oral LD50 Rat 4350 mg/kg Hexamethylene diisocyanate, oligomers (CAS 28182-81-2) **Acute** Dermal LD50 Rat > 2000 mg/kg Inhalation Mist LC50 Rat 0.39 mg/l, 4 hours Oral LD50 Rat > 2000 mg/kg Isocyanatoacrylate **Acute** Dermal LD50 Rabbit > 2000 mg/kg Inhalation Mist LC50 Rat > 5 mg/l, 4 hours Oral LD50 Rat > 5000 mg/kg n-Butyl acetate (CAS 123-86-4) **Acute** Dermal LD50 Rabbit 14110 mg/kg Inhalation Vapour LC50 Rat 23.4 mg/l, 4 hours Oral LD50 Rat 10760 mg/kg phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (CAS 162881-26-7) **Acute** Dermal LD50 Rat > 2000 mg/kg Oral > 2000 mg/kg LD50 Rat 2000 mg/kg Tosyl isocyanate (CAS 4083-64-1) <u>Acute</u> Dermal LD50 Rat > 2000 mg/kg Oral LD50 Rat 2330 mg/kg Skin corrosion/irritation Causes skin irritation. Material name: HumiSeal UV40 SDS GREAT BRITAIN

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irritation

Causes serious eye irritation.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible.

May cause an allergic skin reaction. Skin sensitisation

Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

SECTION 12: Ecological information

Very toxic to aquatic life with long lasting effects. 12.1. Toxicity

LC50	Fish	11432.1602, 96 hours estimated
EC50	Algae	69.6429, 72 hours estimated
EC50	Daphnia	45.6963, 48 hours estimated
LC50	Fish	0.8328, 96 hours estimated
	Species	Test Results
	EC50 EC50	EC50 Algae EC50 Daphnia LC50 Fish Species

Acute

EC50 1.95, 72 hours Algae Algae

Camphene (CAS 79-92-5)

Aquatic

Acute

Crustacea EC50 Daphnia 0.72, 48 hours Fish LC50 Fish 0.72, 96 hours

Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (CAS 84434-11-7)

Aquatic

Acute

Crustacea EC50 Daphnia 2.26, 48 hours Fish LC50 Fish 1.89, 96 hours

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (CAS 5888-33-5)

Aquatic

Acute

Fish LC50 Fish 0.704, 96 hours

Isocyanatoacrylate

Aquatic

Acute

EC50 Daphnia 58. 48 hours Crustacea

Tosyl isocyanate (CAS 4083-64-1)

Aquatic

Acute

EC50 Crustacea Daphnia > 100 mg/l, 48 hours Fish LC50 > 45 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

Material name: HumiSeal UV40 SDS GREAT BRITAIN

Partition coefficient n-octanol/water (log Kow)

Camphene (CAS 79-92-5) 4.22 n-Butyl acetate (CAS 123-86-4) 1.78

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. 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 wasteNot available.Contaminated packagingNot available.EU waste codeNot available.

Disposal methods/information 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.

SECTION 14: Transport information

ADR

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

name (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Hazard No. (ADR) 90
Tunnel restriction code E
14.4. Packing group III
14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user

These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 Kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

RID

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

name (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
14.4. Packing group III
14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user

ΔΠΝ

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

name (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
14.4. Packing group III
14.5. Environmental hazards Yes

14.6. Special precautions Not available.

for user

IATA

14.1. UN number UN3082

14.2. UN proper shipping Environmentally hazardous substance, liquid, n.o.s. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl

name acrylate)

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14.3. Transport hazard class(es)

Class 9
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards Yes
ERG Code 9L

14.6. Special precautions

Not available.

Not established.

for user

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

As per IATA S.P. A197: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net weight per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

IMDG

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

name (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), MARINE POLLUTANT

14.3. Transport hazard class(es)

Class 9
Subsidiary risk 14.4. Packing group III
14.5. Environmental hazards

Marine pollutantYesEmSF-A, S-F14.6. Special precautionsNot available.

for user

As per section 2.10.2.7 of IMDG Code: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 Kg or less for solids are not subject to any other provisions of the IMDG Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of the IMDG Code relevant to any additional hazards continue to apply.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

ADN: ADR: IATA: IMDG: RID



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.

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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

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

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

Not listed

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 Not listed.

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

Not listed.

Other EU regulations

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

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (CAS 5888-33-5)

n-Butyl acetate (CAS 123-86-4) Tosyl isocyanate (CAS 4083-64-1)

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 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

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

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.

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. TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture Not available. Not available.

Full text of any H-statements not written out in full under Sections 2 to 15

H226 Flammable liquid and vapour.

H228 Flammable solid. H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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.

SECTION 2: Hazards identification: Supplemental label information Revision information

SECTION 11: Toxicological information: Acute toxicity

Training information Disclaimer

Not available.

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