













SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

HumiSeal 1A20R

of the mixture

Registration number

Synonyms None.

Product code HumiSeal 1A20R Issue date 12-03-2015

Version number

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

Identified uses Protective Coating for Printed Circuit Board

Uses advised against None known.

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

UK

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 Chemtrec USA 1-800-424-9300

number

OutSide USA +1 703-741-5970

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 Directive 67/548/EEC or 1999/45/EC as amended

Classification R10, T;R23/24/25-39/23/24/25-48/23, Xi;R38, R42/43, N;R51/53

The full text for all R-phrases is displayed in section 16.

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

Physical hazards

Flammable liquids Category 3 H226 - Flammable liquid and

vapor.

Health hazards

Acute toxicity, oral Category 3 H301 - Toxic if swallowed.

Acute toxicity, dermal Category 3 H311 - Toxic in contact with skin.

Acute toxicity, inhalation Category 4 H332 - Harmful if inhaled.
Skin corrosion/irritation Category 2 H315 - Causes skin irritation.

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Respiratory sensitization Category 1 H334 - May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Skin sensitization Category 1 H317 - May cause an allergic skin

reaction.

Specific target organ toxicity - single

exposure

exposure

Category 1

Category 1

H370 - Causes damage to organs.

H372 - Causes damage to organs

through prolonged or repeated

exposure.

Environmental hazards

Hazardous to the aquatic environment,

Specific target organ toxicity - repeated

long-term aquatic hazard

Category 3

H412 - Harmful to aquatic life with

long lasting effects.

Hazard summary

Physical hazards Flammable.

Health hazards May cause cancer by inhalation. May cause harm to the unborn child. Also toxic by inhalation, in

contact with skin and if swallowed. Irritating to skin. Also toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. May cause sensitization by inhalation and skin contact. Also toxic: danger of serious damage to health by prolonged exposure through inhalation. Occupational exposure to the substance or mixture may cause adverse health

effects.

Environmental hazards Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards Prolonged exposure may cause chronic effects.

Main symptoms Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin

reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

2.2. Label elements

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

Contains: ETHYLBENZENE, TOLUENE, TOLUENE DIISOCYANATE, Tosyl isocyanate

Hazard pictograms



Signal word Danger

Hazard statements

Flammable liquid and vapor. H226

Toxic if swallowed. H301 Toxic in contact with skin. H311 Causes skin irritation.

H315 May cause an allergic skin reaction. H317

Harmful if inhaled. H332

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

Causes damage to organs. H370

Causes damage to organs through prolonged or repeated exposure. H372

Harmful to aquatic life with long lasting effects. H412

Precautionary statements

Pre	``	nti	n
FIG	3 V C	HU	UH

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

Keep container tightly closed. P233

Ground/bond container and receiving equipment. P240

Use explosion-proof electrical/ventilating/lighting equipment. P241

Use only non-sparking tools. P242

Take precautionary measures against static discharge. P243

Do not breathe mist or vapor. P260 Wash thoroughly after handling. P264

Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271

Contaminated work clothing should not be allowed out of the workplace. P272

Avoid release to the environment. P273

Wear protective gloves/protective clothing. P280

Wear protective gloves/eye protection/face protection. P280

Wear respiratory protection. P284

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor. P301 + P310

Material name: HumiSeal 1A20R SDS UK P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 + P340

IF exposed or concerned: Call a POISON CENTER/doctor. P308 + P311

Rinse mouth. P330

If skin irritation or rash occurs: Get medical advice/attention. P333 + P313

If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P342 + P311 Take off immediately all contaminated clothing and wash it before reuse. P361 + P364

In case of fire: Use appropriate media to extinguish. P370 + P378

Storage

Store in a well-ventilated place. Keep cool. P403 + P235

Store locked up. P405

Disposal

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

72.45% of the mixture consists of component(s) of unknown acute oral toxicity. 73.4% of the Supplemental label information

> mixture consists of component(s) of unknown acute dermal toxicity. 74.43% of the mixture consists of component(s) of unknown acute inhalation toxicity. 72.45% of the mixture consists of

component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1-METHOXY-2-PROP	YL ACETA	ATE 20 - < 30	108-65-6 203-603-9	-	607-195-00-7	#
Classification:	DSD:	R10				
	CLP:	Flam. Liq. 3;H2	226			
XYLENES		10 - < 20	Mixture 215-535-7	-	601-022-00-9	#
Classification:	DSD:	Xn;R20/21/22,	Xi;R38, N;R51/53			С
	CLP:	-				С
ETHYLBENZENE		3 - < 5	100-41-4 202-849-4	-	601-023-00-4	#
Classification: DSD:		F;R11, Xn;R20	-65-48/20			
	CLP:	Flam. Liq. 2;H2 Aquatic Chroni		4, Acute Tox. 4;H332, STOT F	RE 2;H373,	
TOLUENE		1 - < 3	108-88-3 203-625-9	01-2119471310-51-xxxx	601-021-00-3	#
Classification:	DSD: F;R11, Repr. Cat. 3;R63, Xn;R65-48/20, Xi;R38, R67		3/20, Xi;R38, R67			
	CLP:	CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H 2;H361d, STOT RE 2;H373, Aquatic Chronic 2;H411			3;H336, Repr.	
Tosyl isocyanate		1 - < 3	4083-64-1 223-810-8	-	615-012-00-7	
Classification:	DSD:	R14, Xi;R36/37	7/38, R42			
CLP:		Skin Irrit. 2;H3	15, Eye Irrit. 2;H319,	Resp. Sens. 1;H334, STOT S	E 3;H335	
TOLUENE DIISOCYAN	NATE	< 1	26471-62-5 247-722-4	-	615-006-00-4	
Classification:	DSD:	Carc. Cat. 3;R4	40, T+;R26, Xi;R36/3	7/38, R42/43, R52/53		C,2
	CLP:			7, Eye Irrit. 2;H319, Acute To: 335, Carc. 2;H351, Aquatic Cl		С

Other components below reportable levels 40 - < 50

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

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

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

The full text for all R- and H-phrases is displayed in section 16. **Composition comments**

SECTION 4: First aid measures

General information

Take off immediately all contaminated clothing. 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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. 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

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

Direct contact with eyes may cause temporary irritation. Difficulty in breathing. 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. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Flammable liquid and vapor.

5.1. Extinguishing media

Suitable extinguishing

media

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

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 Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

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

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

procedures

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. 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	Type	Value
1-METHOXY-2-PROPYL ACETATE (CAS 108-65-6)	STEL	548 mg/m3
,		100 ppm
	TWA	274 mg/m3
		50 ppm
ETHYLBENZENE (CAS 100-41-4)	STEL	552 mg/m3
,		125 ppm
	TWA	441 mg/m3
		100 ppm
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	191 mg/m3
		50 ppm
TOLUENE DIISOCYANATE (CAS 26471-62-5)	STEL	0.07 mg/m3
,	TWA	0.02 mg/m3
XYLENES	STEL	441 mg/m3
		100 ppm
	TWA	220 mg/m3
		50 ppm
EU. Indicative Exposure Limit Valu	es in Directives 91/322/EEC.	2000/39/EC, 2006/15/EC, 2009/161/EU
Components	Туре	Value
1-METHOXY-2-PROPYL ACETATE (CAS 108-65-6)	STEL	550 mg/m3

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

Components	Туре	Value	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
ETHYLBENZENE (CAS 100-41-4)	STEL	884 mg/m3	
,		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
TOLUENE (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	
XYLENES	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Biological limit values

Components	Value	Determinant	Specimen	Sampling Time
XYLENES	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

Recommended monitoring

Follow standard monitoring procedures.

procedures

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

UK EH40 WEL: Skin designation

1-METHOXY-2-PROPYL ACETATE (CAS 108-65-6)
ETHYLBENZENE (CAS 100-41-4)
Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information	Wear chemical protective equipment that is specifically recommended by the manufacturer. 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 vapor cartridge and full facepiece.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

Supplier.
 Other
 Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measuresWhen using do not smoke. 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. **Form** Liquid. Color Clear Odor Aromatic **Odor threshold** Not available. Does not apply. pН Melting point/freezing point Not available. Not available. Initial boiling point and boiling

range

Flash point 82.4 °F (28.0 °C) **Evaporation rate** > 1 BuAc Not applicable. Flammability (solid, gas)

1 %

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper 7 %

(%)

Vapor pressure 7.65 hPa estimated Not available. Vapor density Relative density Not available.

Solubility(ies)

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

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. 70 - 100 cP **Viscosity** 77 °F (25 °C) Viscosity temperature Not explosive. **Explosive properties Oxidizing properties** Not oxidizing.

9.2. Other information

Brookfield viscosity 70 - 130 cP **Density** 1.02 g/cm3 Miscible (water) Negligible Percent volatile 46 - 52 % v/v

Specific gravity 1.02 VOC (Weight %) 511 g/l

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 Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

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

Material name: HumiSeal 1A20R SDS LIK

Information on likely routes of exposure

Inhalation Harmful if inhaled. May cause damage to organs by inhalation. May cause damage to organs

through prolonged or repeated exposure by inhalation. May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin contactToxic in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Toxic if swallowed.

Symptoms Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin

reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

Acute toxicity Toxic in contact with skin. Toxic if swallowed. Harmful if inhaled. May cause an allergic skin

reaction.

Components	Species	Test Results		
ETHYLBENZENE (CAS 100-41-4)				
<u>Acute</u>				
Dermal				
LD50	Rabbit	17800 mg/kg		
Oral				
LD50	Rat	3500 mg/kg		
TOLUENE (CAS 108-88-3)				
<u>Acute</u>				
Dermal				
LD50	Rabbit	12124 mg/kg		
		14.1 ml/kg		
Inhalation				
LC50	Mouse	5320 ppm, 8 Hours		
		400 ppm, 24 Hours		
	Rat	26700 ppm, 1 Hours		
		12200 ppm, 2 Hours		
		8000 ppm, 4 Hours		
Oral				
LD50	Rat	2.6 g/kg		
TOLUENE DIISOCYANATE (CAS 2	26471-62-5)			
<u>Acute</u>	,			
Inhalation				
LC50	Guinea pig	90.4 mg/l, 4 Hours		
	Mouse	69.1 mg/l, 4 Hours		
	Rabbit	0.0783 mg/l, 4 Hours		
	Rat	0.3489 mg/l, 4 Hours		
		0.057 mg/l, 1 Hours		
Oral		3,		
LD50	Mouse	1950 mg/kg		
	Rat	3060 mg/kg		

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization May cause an allergic skin reaction.

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

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

TOLUENE (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

TOLUENE DIISOCYANATE (CAS 26471-62-5)

2B Possibly carcinogenic to humans.

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8 / 13

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

Specific target organ toxicity -

single exposure

Causes damage to organs.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

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

Mixture versus substance

information

No information available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

Compo	nents		Species	Test Results
ETHYLE	BENZENE (CAS 100-41	1-4)		
	Aquatic			
	Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
	Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
TOLUE	NE (CAS 108-88-3)			
	Aquatic			
	Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
	Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

12.2. Persistence and

No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

 ETHYLBENZENE
 3.15

 TOLUENE
 2.73

 XYLENES
 3.12 - 3.2

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT Not available.

and vPvB assessment

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 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 (see:

Disposal instructions).

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 codeThe 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 precautionsDispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1263 **14.2. UN proper shipping** PAINT

Material name: HumiSeal 1A20R

name

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```
3
        Class
        Subsidiary risk
                                 3
        Label(s)
        Hazard No. (ADR)
                                 30
        Tunnel restriction code D/E
                                 Ш
    14.4. Packing group
    14.5. Environmental hazards No.
                                 Read safety instructions, SDS and emergency procedures before handling.
    14.6. Special precautions
    for user
RID
                                 UN1263
    14.1. UN number
    14.2. UN proper shipping
                                 PAINT
    14.3. Transport hazard class(es)
        Class
                                 3
        Subsidiary risk
                                 3
        Label(s)
                                 Ш
    14.4. Packing group
    14.5. Environmental hazards No.
    14.6. Special precautions
                                 Read safety instructions, SDS and emergency procedures before handling.
    for user
ADN
    14.1. UN number
                                 UN1263
    14.2. UN proper shipping
                                 PAINT
    name
    14.3. Transport hazard class(es)
        Class
                                 3
        Subsidiary risk
                                 3
        Label(s)
                                 Ш
    14.4. Packing group
    14.5. Environmental hazards No.
    14.6. Special precautions
                                 Read safety instructions, SDS and emergency procedures before handling.
    for user
IATA
    14.1. UN number
                                 UN1263
                                 PAINT
    14.2. UN proper shipping
    name
    14.3. Transport hazard class(es)
                                 3
        Subsidiary risk
    14.4. Packing group
                                 Ш
    14.5. Environmental hazards No.
    ERG Code
    14.6. Special precautions
                                 Read safety instructions, SDS and emergency procedures before handling.
    for user
    Other information
        Passenger and cargo
                                 Allowed.
        aircraft
        Cargo aircraft only
                                 Allowed.
IMDG
                                 UN1263
    14.1. UN number
    14.2. UN proper shipping
                                 PAINT
    14.3. Transport hazard class(es)
                                 3
        Class
        Subsidiary risk
                                 Ш
    14.4. Packing group
    14.5. Environmental hazards
        Marine pollutant
                                 No.
                                 F-E, S-E
    EmS
    14.6. Special precautions
                                 Read safety instructions, SDS and emergency procedures before handling.
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for user

14.3. Transport hazard class(es)

Not established.

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

ADN; ADR; IATA; IMDG; RID



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, as amended

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

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

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

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorizations

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

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use 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

ETHYLBENZENE (CAS 100-41-4) **TOLUENE (CAS 108-88-3)**

TOLUENE DIISOCYANATE (CAS 26471-62-5)

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.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

TOLUENE (CAS 108-88-3)

TOLUENE DIISOCYANATE (CAS 26471-62-5)

Other EU regulations

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

1-METHOXY-2-PROPYL ACETATE (CAS 108-65-6)

ETHYLBENZENE (CAS 100-41-4)

TOLUENE (CAS 108-88-3)

TOLUENE DIISOCYANATE (CAS 26471-62-5)

Tosyl isocyanate (CAS 4083-64-1)

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Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

1-METHOXY-2-PROPYL ACETATE (CAS 108-65-6)

ETHYLBENZENE (CAS 100-41-4)

TOLUENE (CAS 108-88-3)

TOLUENE DIISOCYANATE (CAS 26471-62-5)

Tosyl isocyanate (CAS 4083-64-1)

Directive 94/33/EC on the protection of young people at work, as amended

ETHYLBENZENE (CAS 100-41-4)

TOLUENE (CAS 108-88-3)

TOLUENE DIISOCYANATE (CAS 26471-62-5)

Tosyl isocyanate (CAS 4083-64-1)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Pregnant women should not work with the product, if there is the least risk of exposure.

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. Follow national regulation for work

with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available. Not available. References

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 or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.

R11 Highly flammable.

R14 Reacts violently with water.

R20 Harmful by inhalation.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R23/24/25 Also toxic by inhalation, in contact with skin and if swallowed.

R26 Very toxic by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R38 Irritating to skin.

R39/23/24/25 Also toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R40 Limited evidence of a carcinogenic effect. R42 May cause sensitization by inhalation.

R42/43 May cause sensitization by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation. R48/23 Also toxic: danger of serious damage to health by prolonged exposure through inhalation.

R49 May cause cancer by inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61 May cause harm to the unborn child.

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapors may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

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H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Revision information Training information

Disclaimer

Follow training instructions when handling this material.

62000 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.

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