













SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

Humiseal Acrylic Gel

of the mixture

Registration number -

Synonyms None.

Product code HumiSeal Europe Acrylic Gel

Issue date 24-June-2015

Version number

Revision date 10-October-2016 Supersedes date 08-January-2016

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

Identified uses Protective Encapsulant 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

number

Chemtrec USA

1-800-424-9300

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 F;R11, Repr. Cat. 2;R61, R67

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 2 H225 - Highly flammable liquid and

vapour.

Health hazards

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Reproductive toxicity (the unborn child)

Category 1B

H360D - May damage the unborn

child.

Category 3 narcotic effects

Specific target organ toxicity - single exposure

H336 - May cause drowsiness or dizziness.

Hazard summary

Physical hazards Highly flammable.

Health hazards May cause harm to the unborn child. Vapours may cause drowsiness and dizziness. Occupational

exposure to the substance or mixture may cause adverse health effects.

Environmental hazards Not classified for hazards to the environment.

Specific hazards None known.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Main symptoms

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

2.2. Label elements

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

Isopropyl alcohol, N-Ethyl-2-pyrrolidone Contains:

Hazard pictograms



Danger Signal word

Hazard statements

Highly flammable liquid and vapour. H225 Causes serious eve irritation. H319 May cause drowsiness or dizziness. H336 H360D May damage the unborn child.

Precautionary statements

Prevention

Obtain special instructions before use. P201

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

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

Avoid breathing mist or vapour. P261 Wash thoroughly after handling. P264

Use only outdoors or in a well-ventilated area. P271

Wear protective gloves/protective clothing/eye protection/face protection. P280

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with P303 + P361 + P353

water/shower

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention. P308 + P313 Call a POISON CENTER/doctor if you feel unwell. P312 If eve irritation persists: Get medical advice/attention. P337 + P313 In case of fire: Use appropriate media to extinguish. P370 + P378

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

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

Supplemental label information EUH208 - Contains Butyl acrylate, Methyl methacrylate. May produce an allergic reaction.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HumiSeal Europe Acrylic Gel Version #: 03 Revision date: 10-October-2016 Issue date: 24-June-2015

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Isopropyl alcohol		10 - < 20	67-63-0 200-661-7	01-2119457558-25-xxxx	603-117-00-0	
Classification:	DSD:	F;R11, Xi;R36, F	R67			
	CLP:	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				
N-Ethyl-2-pyrrolidone		1 - < 3	2687-91-4 220-250-6	-	616-208-00-5	
Classification:	DSD:	Repr. Cat. 2;R6	I			
	CLP:	-				
Butyl acrylate		< 0.2	141-32-2 205-480-7	-	607-062-00-3	#
Classification:	DSD:	R10, Xi;R36/37/	38, R43			D
	CLP:	Flam. Liq. 3;H226, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, STOT SE 3;H335				D
Methyl methacrylate		< 0.2	80-62-6 201-297-1	-	607-035-00-6	
Classification:	DSD:	F;R11, Xi;R37/3	8, R43			D
	CLP:	Flam. Liq. 2;H22	5, Skin Irrit. 2;H31	5, Skin Sens. 1;H317, STOT S	E 3;H335	D

Other components below reportable levels 70 - < 80

List of abbreviations and symbols that may be used above

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

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

M: M-factor

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

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 all contaminated clothing immediately. 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 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.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical Skin contact

attention if irritation develops and persists.

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

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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 under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Highly flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Vapours may form explosive mixtures with air. Vapours 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 procedures

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

procedures 55 minoration

Specific methodsUse 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. Avoid breathing mist or vapour. 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.

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.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. 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. 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. 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 handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. 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. Avoid breathing mist or vapour. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. 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	Туре	Value	Form
Butyl acrylate (CAS 141-32-2)	STEL	26 mg/m3	
,		5 ppm	
	TWA	5 mg/m3	
		1 ppm	

IIK FH40	Workplace	Fynosura	Limite	(WFI e)
UN. E1140	VVUIRDIACE	LADUSUIG	LIIIIII	(VVLLS)

Components	Туре	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	1250 mg/m3	
,		500 ppm	
	TWA	999 mg/m3	
		400 ppm	
Methyl methacrylate (CAS 80-62-6)	STEL	416 mg/m3	
,		100 ppm	
	TWA	208 mg/m3	
		50 ppm	
Silica (CAS 112945-52-5)	TWA	6 mg/m3	Inhalable dust.
,		2.4 mg/m3	Respirable dust.
EU. Indicative Exposure Limit Val	ues in Directives 91/322/EEC,	2000/39/EC, 2006/15/EC, 2009	/161/EU

Components **Type** Value

7 .		
STEL	53 mg/m3	
	10 ppm	
TWA	11 mg/m3	
	2 ppm	
	STEL	STEL 53 mg/m3 10 ppm TWA 11 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Not available. Derived no-effect level (DNEL)

Predicted no effect concentrations (PNECs) Not available.

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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

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 Skin protection

Chemical respirator with organic vapour cartridge and full facepiece.

- Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

- Other Wear suitable protective 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.

Observe any medical surveillance requirements. When using do not smoke. Always observe good Hygiene measures

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.

Environmental exposure

controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. **Form** Liquid. Colour Translucent Aromatic Odour

Odour threshold Not available. Does not apply.

-88.5 °C (-127.3 °F) estimated Melting point/freezing point Initial boiling point and boiling 82.5 °C (180.5 °F) estimated

1.5 %

range

12.0 °C (53.6 °F) Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

10 % Flammability limit - upper

19.78 hPa estimated Vapour pressure

Vapour density Not available. Not available. Relative density

Solubility(ies)

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

(n-octanol/water)

399 °C (750.2 °F) estimated Auto-ignition temperature

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

9.2. Other information

0.96 g/cm3 Density Miscible (water) Negligible Percent volatile 75 % 0.96 Specific gravity 709 g/l VOC (Weight %)

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 oxidising agents. Isocyanates Chlorine.

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 drowsiness and dizziness. Headache. Nausea, vomiting. May cause allergy or asthma Inhalation

symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact May cause an allergic skin reaction. Causes serious eye irritation. Eye contact

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

occupational exposure.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

11.1. Information on toxicological effects

Narcotic effects.

Acute toxicity Components **Species Test results** Butyl acrylate (CAS 141-32-2) **Acute Dermal** LD50 Rabbit 2000 mg/kg Inhalation LC50 Mouse 7.8 mg/l, 2 Hours Oral LD50 Mouse 7561 mg/kg Rat 900 mg/kg Isopropyl alcohol (CAS 67-63-0) **Acute Dermal** LD50 Rabbit 12800 mg/kg Oral LD50 Dog 4797 mg/kg Mouse 3600 mg/kg Rabbit 5.03 g/kg Rat 4.7 g/kg Methyl methacrylate (CAS 80-62-6) **Acute** Inhalation LC50 Mouse 18.5 mg/l, 2 Hours Rat 3750 ppm, 8 Hours Oral LD50 Mouse 5.5 ml/kg

Rabbit

Rat

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye

irritation

Causes serious eye irritation.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Butyl acrylate (CAS 141-32-2) 3 Not classifiable as to carcinogenicity to humans. Methyl methacrylate (CAS 80-62-6) 3 Not classifiable as to carcinogenicity to humans.

May damage the unborn child. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

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

6000 mg/kg

7800 mg/kg

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

Mixture versus substance

information

No information available.

Other information May cause allergic respiratory and skin reactions.

SECTION 12: Ecological information

12.1. Toxicity Due to partial or complete lack of data the classification for hazardous to the aquatic environment,

is not possible.

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

Components Species Test results

Isopropyl alcohol (CAS 67-63-0)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

Methyl methacrylate (CAS 80-62-6)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 136.3 - 183.4 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)

Butyl acrylate 2.36
Isopropyl alcohol 0.05
Methyl methacrylate 1.38

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. 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

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Hazard No. (ADR) 33
Tunnel restriction code D/E
14.4. Packing group II

14.5. Environmental hazards No. **14.6. Special precautions** Rea

Read safety instructions, SDS and emergency procedures before handling.

for user

RID

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

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
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 Label(s) 3
14.4. Packing group II
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 **14.2. UN proper shipping** PAINT

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk 14.4. Packing group II
14.5. Environmental hazards No.
ERG Code 3L

14.6. Special precautions

for user

Other information

Passenger and cargo aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number

UN1263

Not established.

Allowed with restrictions.

14.2. UN proper shipping

PAINT

name

14.3. Transport hazard class(es)

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of Marpol

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 and II, as amended

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

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

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

Isopropyl alcohol (CAS 67-63-0) Methyl methacrylate (CAS 80-62-6) N-Ethyl-2-pyrrolidone (CAS 2687-91-4)

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

N-Ethyl-2-pyrrolidone (CAS 2687-91-4)

Other EU regulations

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

Butyl acrylate (CAS 141-32-2) Isopropyl alcohol (CAS 67-63-0) Methyl methacrylate (CAS 80-62-6)

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

Butyl acrylate (CAS 141-32-2) Isopropyl alcohol (CAS 67-63-0) Methyl methacrylate (CAS 80-62-6) N-Ethyl-2-pyrrolidone (CAS 2687-91-4)

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

Butyl acrylate (CAS 141-32-2) Methyl methacrylate (CAS 80-62-6) N-Ethyl-2-pyrrolidone (CAS 2687-91-4)

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

Pregnant women should not work with the product, if there is the least risk of exposure. This Safety

Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

Follow national regulation for work with chemical agents. Young people under 18 years old are not **National regulations**

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 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.

Material name: Humiseal Acrylic Gel

SDS LIK

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.

R11 Highly flammable.

R36 Irritating to eyes.

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

R37/38 Irritating to respiratory system and skin. R43 May cause sensitisation by skin contact. R61 May cause harm to the unborn child.

R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Revision information Training information

Follow training instructions when handling this material.

Disclaimer

HUMISEAL EUROPE 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 offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This material is intended for industrial use only. No warranty, expressed or implied is made.

This document has undergone significant changes and should be reviewed in its entirety.