















## SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

HumiSeal 1R32A-2

of the mixture

Registration number

None.

Synonyms
Product code

HumiSeal Europe 1R32 A-2

Issue date

16-June-2015

Version number

05

Revision date

14-September-2022

Supersedes date

02-June-2020

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

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

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 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

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.

Specific target organ toxicity - single exposure

Category 3 narcotic effects

H336 - May cause drowsiness or

dizziness.

**Hazard summary** 

May be ignited by heat, sparks or flames. May cause drowsiness or dizziness. Causes serious eye irritation. Occupational exposure to the substance or mixture may cause adverse health

effects.

2.2. Label elements

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

Contains: Butanone, n-Butyl acetate

Hazard pictograms



Signal word Danger

**Hazard statements** 

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

**Precautionary statements** 

Prevention

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

P233 Keep container tightly closed.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing mist/vapours.

Response

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

and easy to do. Continue rinsing.

P312 Call a PÓISON CENTRE/doctor if you feel unwell.
P370 + P378 In case of fire: Use appropriate media to extinguish.

**Storage** 

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

**Disposal** Not available.

Supplemental label information 3.2 % of the mixture consists of component(s) of unknown acute oral toxicity. 99.9 % of the

mixture consists of component(s) of unknown acute dermal toxicity. 3.2 % of the mixture consists of component(s) of unknown acute inhalation toxicity, 3.2 % of the mixture consists of

of component(s) of unknown acute inhalation toxicity. 3.2 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 3.2 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. EUH066 -

Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards 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
n-Butyl acetate	80 - < 90	123-86-4 204-658-1	-	607-025-00-1	#
	Classification: Flam. Liq.	3;H226, STOT SE 3;	H336		
Butanone	10 - < 20	78-93-3 201-159-0	-	606-002-00-3	#
	Classification: Flam. Liq.	2;H225, Eye Irrit. 2;H	1319, STOT SE 3;H336		

## 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**

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the

material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

before reuse.

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#### 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**Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

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

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

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

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

May cause drowsiness or 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.

**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

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.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid breathing mist/vapours. Ventilate closed spaces before entering them. 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 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.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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 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. 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/vapours. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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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. Keep container tightly closed. 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

Components	Туре	Value	
Butanone (CAS 78-93-3)	STEL	899 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	966 mg/m3	
		200 ppm	
	TWA	724 mg/m3	
		150 ppm	

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

Components	туре	value	
Butanone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	723 mg/m3	
		150 ppm	
	TWA	241 mg/m3	
		50 ppm	

## **Biological limit values**

UK. EH40 Biological Monito	oring Guidance Va	lues (BMGVs)
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Components	Value	Determinant	Specimen	Sampling Time
Butanone (CAS 78-93-3)	70 umol/l	Butan-2-one	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

#### **Exposure guidelines**

#### UK EH40 WEL: Skin designation

Butanone (CAS 78-93-3)

Can be absorbed through the skin.

## 8.2. Exposure controls

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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

Use personal protective equipment as required. Personal protection equipment should be chosen **General information** 

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.

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- Other Wear suitable protective clothing.

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

Thermal hazards Not applicable.

When using do not smoke. Always observe good personal hygiene measures, such as washing Hygiene measures

after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

**Environmental exposure** 

controls

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

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Liauid. **Form** Not available.

Clear Colour Odour Aromatic Not available. Odour threshold Does not apply. рΗ

-86.64 °C (-123.95 °F) estimated Melting point/freezing point Initial boiling point and boiling

range

79.59 °C (175.26 °F) estimated

Flash point 7.0 °C (44.6 °F) **Evaporation rate** 3.6 BuAc Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1.3 % estimated Explosive limit - upper 11.2 % estimated

(%)

32.24 hPa estimated Vapour pressure

Not available. Vapour density Relative density Not available.

Solubility(ies)

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

(n-octanol/water)

Auto-ignition temperature

425 °C (797 °F) estimated

**Decomposition temperature** Not available. Viscosity 190 - 250 cP 25 °C (77 °F) Viscosity temperature **Explosive properties** Not explosive. Oxidising properties Not oxidising.

9.2. Other information

190 - 250 cP **Brookfield viscosity** 

Density 0.87 g/cm3 estimated

Negligible Miscible (water)

Percent volatile 65 - 72 % v/v estimated

Specific gravity 0.87 estimated

645 a/l VOC

## **SECTION 10: Stability and reactivity**

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

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. Contact with incompatible materials.

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10.5. Incompatible materials

Strong oxidising agents. Amines. Ammonia. Caustics. Isocyanates. Nitrates.

10.6. Hazardous

decomposition products

No hazardous decomposition products are known.

## **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be Inhalation

harmful.

**Species** 

Eve contact Causes serious eve irritation.

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

occupational exposure.

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

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

## 11.1. Information on toxicological effects

Acute toxicity	Not known.
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HumiSeal 1R32A-2		
<u>Acute</u>		
Dermal		
LD50	Rabbit	51610 mg/kg
Inhalation		
LC50	Wistar rat	336 mg/l, 4 Hours
Oral		
LD50	Rat	9863 mg/kg
Components	Species	Test Results

Butanone (CAS 78-93-3)

**Product** 

Acute

**Dermal** 

LD50 Rabbit 8054 mg/kg

Inhalation

Vapour

LC50 Rat 34 mg/l, 4 hours

Oral

LD50 Rat 2193 mg/kg

2054 mg/kg

23.4 mg/l, 4 hours

**Test Results** 

n-Butyl acetate (CAS 123-86-4)

**Acute** 

**Dermal** 

LD50 Rabbit 14110 mg/kg

Inhalation

Vapour

LC50 Oral

LD50 Rat 10760 ma/ka

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.

Rat

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

Skin sensitisation Due to partial or complete lack of data the classification is not possible. 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 drowsiness or dizziness.

Specific target organ toxicity -

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

repeated exposure

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Mixture versus substance

information

No information available.

## **SECTION 12: Ecological information**

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Product Species Test Results** HumiSeal 1R32A-2 Aquatic Crustacea EC50 Daphnia 25967.7422, 48 hours Fish LC50 Fish 189.333, 96 hours Acute Crustacea EC50 Daphnia 1987.0968, 48 hours estimated Fish LC50 Fish 16184.502, 96 hours estimated

12.2. Persistence and

No data is available on the degradability of any ingredients in the mixture.

degradability

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Butanone (CAS 78-93-3) 0.29 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 waste Not available.

Contaminated packaging Not available.

EU waste code Not available.

Disposal methods/information Dispose of contents/container in accordance with local/regional/national/international 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 ||
14.5. Environmental hazards No.

**14.6. Special precautions** Not available.

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 Not available.

for user

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#### 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 ||
14.5. Environmental hazards No.

**14.6. Special precautions** Not available.

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** Not available.

for user

Other information

Passenger and cargo

aircraft

Cargo aircraft only Allowed with restrictions.

Allowed with restrictions.

Not established.

**IMDG** 

**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
Marine pollutant No.

EmS F-E, S-D

14.6. Special precautions Not available.

for user

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

Population (EC) No. 1005/2009 on subst

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

Not listed.

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

Not listed.

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Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

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

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 Butanone (CAS 78-93-3)

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

Butanone (CAS 78-93-3) n-Butyl acetate (CAS 123-86-4)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Not available.

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

Not available. Not available.

Full text of any H-statements not written out in full under

Sections 2 to 15

classification of mixture

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour. H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

Training information Not available.

Material name: HumiSeal 1R32A-2 SDS GREAT BRITAIN

#### **Disclaimer**

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.

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