Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade name: Sanitiser Spray
Registration Number: Mixture

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

Product Category: PC8 Biocidal products
PC35 Washing and cleaning products (including solvent based products)

Application of the substance / the mixture: Sanitiser

Uses advised against: Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.
Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).
Processes involving the use of incompatible substances - refer to section 10.
Processes involving extreme heat use advised against.

1.3 Details of the supplier of the safety data sheet

Reliance Medical Ltd
West Avenue, Talke
Stoke on Trent, Staffordshire
ST7 1TL, United Kingdom

Tel: +44 8456 448808
Email: sales@reliancemedical.co.uk

Further information obtainable from: Product Safety Department

1.4 Emergency telephone

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to GB CLP:
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness

2.2 Label elements

Labelling according to GB CLP: The product is classified and labelled according to the GB CLP regulation.
Hazard pictograms:

GHS02 GHS07

Signal Word:	Danger
Hazard-determining components of labelling:	Isopropyl alcohol
Hazard statements:	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local regulations.
Additional Information:	Contains biocidal active substance(s): Isopropyl alcohol

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable
Determination of endocrine disrupting properties:	Not applicable

SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substance Not Applicable

3.2 Mixtures

Description: Aqueous solution of the substance(s) listed below.

Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-XXXX	Isopropyl alcohol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	50 – 100%

Additional Information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:	Immediately remove any clothing soiled by the product.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Immediately rinse with water. If skin irritation continues, consult a doctor.
After eye contact:	Check for and remove any contact lenses. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	Wash mouth out with water. Do not induce vomiting; call for medical help immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
Information for doctor:	Treat symptomatically and supportively.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:	CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents:	Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:	Flammable. Vapors may travel to source of ignition and flash back. In case of fire, the following can be released: Carbon monoxide and carbon dioxide Hydrocarbons. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

5.3 Advice for firefighters

Protective equipment:	Wear fully protective suit. Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.
Additional information:	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation.
Keep ignition sources away - no smoking.
Wear protective equipment. Keep unprotected persons away.
Vapours are heavier than air. They can spread along the ground and collect in confined spaces.

6.2 Environmental Precautions
Do not allow to penetrate the ground/soil.
Do not allow product to reach sewage system or any water course in the undiluted form. Prevent seepage into sewage system, workpits and cellars.

6.3 Methods and material for containment and cleaning up:
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form. Welding and other hot work operations in the work area must only be permitted under supervision. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Vapour is heavier than air. Beware of accumulation in pits and confined spaces.

Information about fire - and explosion protection: Flammable gas-air mixtures may form in empty receptacles. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground. Store in a cool location.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Maximum storage temperature: 30 °C

Storage class: 3

7.3 Specific end use(s)

No further relevant information available.

SECTION 8. EXPOSURE CONTROL

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 67-63-0 Isopropyl alcohol	
WEL:	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm

DNELs:

CAS: 67-63-0 Isopropyl alcohol		
Oral	Long-term systemic effects	26 mg/kg bw/day (general population)
	Short-term systemic effects	51 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	319 mg/kg bw/day (general population) 888 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	89 mg/m³ (general population) 500 mg/m³ (worker)
	Short-term systemic effects	178 mg/m³ (general population) 1,000 mg/m³ (worker)

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls: Provide general and/or local exhaust ventilation to control airborne levels below the exposure limits.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures: Avoid contact with the eyes and skin. Do not eat or drink while working. Take note of assigned Workplace Exposure Limits.

Ensure that eyewash stations and safety showers are close to the workstation location. Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation. Filter A for organic vapours.

Hand protection:

Protective gloves.
Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves.
Butyl rubber, BR Chloroprene rubber, CR.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material.
Break-through time: > 480 minutes.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection:

Safety glasses with side-shields conforming to EN166.
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection:

Protective work clothing.
Flame retardant antistatic protective clothing.
Body protection must be chosen depending on product properties, activity and possible exposure.

Environmental exposure controls: Do not let product enter drains. Risk of explosion.
Risk management measures: The operators shall be instructed adequately.

SECTION 9. PRYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Physical State:	Liquid
Colour:	Clear
Odour:	Alcohol-like
Odour threshold:	Not determined
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range:	82 °C

Flammability:	Not applicable
Lower and upper explosion limit	
Lower:	2 Vol %
Upper:	12 Vol %
Flash point:	21 °C
Auto-ignition temperature:	425 °C
Decomposition temperature:	Not determined
pH:	Not determined
Viscosity	
Kinematic viscosity:	Not determined
Dynamic:	Not determined
Solubility	
Water:	Fully miscible
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure at 20 °C:	43 hPa
Density and/or relative density	
Density at 20°C:	0.84 g/cm³
Relative density:	Not determined
Vapour density:	Not determined
Particle characteristics:	Not applicable

9.2 Other information

NOTE: The physical data presented above are typical values and should not be construed as a specification.

Appearance	
Form:	Fluid
Important information on protection of health and environment, and on safety	
Ignition temperature:	Product is not self-igniting
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Change in condition	
Evaporation rate:	Not determined
Information with regard to physical hazard classes:	Not applicable
Flammable liquids:	Highly flammable liquid and vapour.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: At elevated temperatures, explosive vapour/air mixtures may be formed. Heating will cause rise in pressure of container with risk of bursting.

10.3 Possibility of hazardous reactions

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised. Reacts violently with oxidising agents. Reacts with strong acids. Reacts with alkaline metals. Reacts with amines.

10.4 Conditions to avoid

Heat and static discharge.

10.5 Incompatible materials

Substances specifically listed in section 10.3 as incompatible. Strong oxidising agents.

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide.
Hydrocarbons.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity:	Based on available data, the classification criteria are not met. LD/LC50 values relevant for classification: CAS: 67-63-0 Isopropyl alcohol Oral LD50 > 2,000 mg/kg (rat)
Primary irritant effect	
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	May cause drowsiness or dizziness.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Subacute to chronic toxicity:	Prolonged or repeated skin contact may irritate and cause dermatitis.
Additional toxicological information:	ROUTES OF EXPOSURE: Can be absorbed into the body by inhalation and by ingestion. Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

11.2 Information on other hazards

Endocrine disrupting properties:	None of the ingredients are listed

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:	CAS: 67-63-0 Isopropyl alcohol LC50 (96 h) > 10,000 mg/l (Bacteria)

12.2 Persistence and degradability

The organic portion of the product is biodegradable.

12.3 Bioaccumulative potential

Product is not expected to bioaccumulate.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information

General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation: Recommended Hierarchy of Controls

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information. Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

UK List of Waste:
HP3 Flammable
HP4 Irritant - skin irritation and eye damage
HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

Uncleaned packaging

Recommendation: Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.
Container remains hazardous when empty. Continue to observe all precautions. Containers, even those that are “empty,” may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number or ID number

ADR, IMDG, IATA: UN1219

14.2 UN proper shipping name

ADR: UN1219 ISOPROPANOL (ISOPROPYL ALCOHOL) solution.

IMDG, IATA: ISOPROPANOL (ISOPROPYL ALCOHOL) solution.

14.3 Transport hazard class(es)

ADR:

Class: 3 (F1) Flammable liquids.
Label: 3

IMDG, IATA:

Class: 3 Flammable liquids.
Label: 3

14.4 Packing group

ADR, IMDG, IATA: II

14.5 Environmental hazards:

Not applicable

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code):	33
Emergency Action Code:	•2YE
EMS Number:	F-E,S-D
Stowage Category:	B

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

Transport/Additional information

ADR

Limited quantities (LQ):	1L
Excepted quantities (EQ):	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category:	2
Tunnel restriction code:	D/E

IMDG

Limited quantities (LQ):	1L
Excepted quantities (EQ):	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation":	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) SOLUTION, 3, II

SECTION 15. REGULATORY INFORMATION

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

Poisons Act

Regulated explosive precursors:	None of the ingredients are listed
Regulated Poisons:	None of the ingredients are listed
Reportable explosives precursors:	None of the ingredients are listed
Reportable Poisons:	None of the ingredients are listed

Control Of Major Accident Hazards Regulations 2015 (COMAH)

Named dangerous substances – ANNEX I:	None of the ingredients are listed
COMAH category:	P5c
Qualifying quantity (tonnes) for the application of lower-tier requirements:	5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements:	50,000 t
REGULATION (EC) No 1907/2006 ANNEX XVII:	Conditions of restriction: 3
DIRECTIVE 2011/65/EU on the restriction of the use of certain	None of the ingredients are listed

hazardous substances in electrical and electronic equipment – Annex II: REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):	None of the ingredients are listed
Annex II - REPORTABLE EXPLOSIVES PRECURSORS:	None of the ingredients are listed

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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

Training hints: This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

Department issuing SDS: Product safety department

Abbreviations and acronyms:

UK REACH:	REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
GB CLP:	REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
UFI:	Unique Formula Identifier.
UK- REACH:	The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
GB- CLP:	Retained GB CLP Regulation (EU) No. 1272/2008 as amended for Great Britain on the Classification, Labelling and Packaging of Chemicals.
ADR:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road).
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
ELINCS:	European List of Notified Chemical Substances.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
DNEL:	Derived No-Effect Level (UK REACH).
LC50:	Lethal concentration, 50 percent.
LD50:	Lethal dose, 50 percent.
PBT:	Persistent, Bioaccumulative and Toxic.
vPvB:	very Persistent and very Bioaccumulative.
ATE:	Acute toxicity estimate values.
Flam. Liq. 2:	Flammable liquids – Category 2.
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2

STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3

Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade name:	Absorbent Granules
Registration Number:	Mixture

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

Product Category:	PC20 Processing aids such as pH regulators, flocculants, precipitants, neutralisation agents
Application of the substance / the mixture:	Absorbent
Uses advised against:	Any use not specified above

1.3 Details of the supplier of the safety data sheet

Reliance Medical Ltd
West Avenue, Talke
Stoke on Trent, Staffordshire
ST7 1TL, United Kingdom

Tel: +44 8456 448808
Email: sales@reliancemedical.co.uk

Further information obtainable from: Product Safety Department

1.4 Emergency telephone

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to GB CLP:	The product is not classified according to the GB CLP regulation

2.2 Label elements

Labelling according to GB CLP:	Not applicable
Hazard pictograms:	Not applicable
Signal Word:	Not applicable
Hazard statements:	Not applicable

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable
Determination of endocrine disrupting properties:	Not applicable

SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substance Not Applicable

3.2 Mixtures

Description: A mixture of polymers with multifunctional additives.
The ingredients are not classified as hazardous or are below disclosure limits.

Dangerous components: Not applicable

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Wash mouth out with water.
If symptoms persist consult doctor.

Information for doctor: Treat symptomatically and supportively.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Carbon monoxide and carbon dioxide
Sulphur Oxides (SOx)
Toxic metal oxide smoke
As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid formation of dust.
Ensure adequate ventilation.

6.2 Environmental Precautions
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Pick up mechanically.
Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:	No special measures required

7.2 Conditions for safe storage, including any incompatibilities
Storage:

Requirements to be met by storerooms and receptacles:	No special requirements
Information about storage in one common storage facility:	Store away from oxidising agents.
Further information about storage conditions:	Store in cool, dry conditions in well sealed receptacles.
Storage class:	11

7.3 Specific end use(s)
No further relevant information available.

SECTION 8. EXPOSURE CONTROL

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information:	The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls:	No further data; see section 7

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Respiratory protection:

When dust/mist are present use a Particulate filter, type P2.

Hand protection:

Protective gloves.
Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection:

Safety glasses with side-shields conforming to EN166.
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Body protection:

Protective work clothing.
Body protection must be chosen depending on product properties, activity and possible exposure.

Environmental exposure controls: Do not allow to enter drains, sewers or watercourses.

SECTION 9. PRYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Physical State:	Solid
Colour:	Whitish
Odour:	Mild
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range:	Undetermined
Flammability:	Not determined
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	Not applicable
Decomposition temperature:	Not determined
pH:	Not applicable
Viscosity	
Kinematic viscosity:	Not applicable
Dynamic:	Not applicable

Solubility	
Water:	Partly soluble
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure:	Not applicable
Density and/or relative density	
Density at 20°C:	1.688-1.824 g/cm³
Relative density:	Not determined
Vapour density:	Not applicable
Particle characteristics:	Not applicable

9.2 Other information

Appearance	
Form:	Granulate
Important information on protection of health and environment, and on safety	
Ignition temperature:	Product is not self-igniting
Explosive properties:	Product does not present an explosion hazard
Change in condition	
Evaporation rate:	Not applicable
Information with regard to physical hazard classes:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
Reacts with oxidising agents.

10.4 Conditions to avoid
Heat and static discharge.

10.5 Incompatible materials
Strong oxidising agents

10.6 Hazardous decomposition products
Carbon monoxide and carbon dioxide.
Sulphur oxides (SOx).
Toxic metal oxide smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity: Based on available data, the classification criteria are not met.
LD/LC50 values relevant for classification:

CAS	9003-04-07	Sodium polyacrylate	Oral	LD50	>2,000 mg/kg (rat)
CAS	9003-01-04	Polyacrylic Acid	Oral	LD50	>2,000 mg/kg (rat)

Primary irritant effect

Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Subacute to chronic toxicity:	Prolonged or repeated skin contact may irritate and cause dermatitis.

11.2 Information on other hazards

Endocrine disrupting properties: None of the ingredients are listed

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available

12.2 Persistence and degradability

The organic portion of the product is biodegradable.

12.3 Bioaccumulative potential

Product is not expected to bioaccumulate.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation: Recommended Hierarchy of Controls

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information. Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Uncleaned packaging
Recommendation: Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.
Containers, even those that are “empty,” may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number or ID number
ADR, IMDG, IATA: Not applicable

14.2 UN proper shipping name
ADR, IMDG, IATA: Not applicable

14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA Class: Not applicable

14.4 Packing group
ADR, IMDG, IATA: Not applicable

14.5 Environmental hazards:
Not applicable

14.6 Special precautions for user
Not applicable

14.7 Maritime transport in bulk according to IMO instruments
Not applicable
UN "Model Regulation": Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Poisons Act
Regulated explosive precursors: None of the ingredients are listed
Regulated Poisons: None of the ingredients are listed
Reportable explosives precursors: None of the ingredients are listed
Reportable Poisons: None of the ingredients are listed
Control Of Major Accident Hazards Regulations 2015 (COMAH)
Named dangerous substances – ANNEX I: None of the ingredients are listed
DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II: None of the ingredients are listed
REGULATION (EU) 2019/1148
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the: None of the ingredients are listed

purpose of licensing under Article 5(3)):	
Annex II - REPORTABLE EXPLOSIVES PRECURSORS:	None of the ingredients are listed

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheet is supplied on a voluntary basis.

Department issuing SDS: Product safety department

Abbreviations and acronyms:

UK REACH:	REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
GB CLP:	REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
UFI:	Unique Formula Identifier.
UK- REACH:	The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
GB- CLP:	Retained GB CLP Regulation (EU) No. 1272/2008 as amended for Great Britain on the Classification, Labelling and Packaging of Chemicals.
ADR:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road).
IMDG:	International Maritime Code for Dangerous Goods.
IATA:	International Air Transport Association.
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
ELINCS:	European List of Notified Chemical Substances.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
LC50:	Lethal concentration, 50 percent.
LD50:	Lethal dose, 50 percent.
PBT:	Persistent, Bioaccumulative and Toxic.
vPvB:	very Persistent and very Bioaccumulative.