	SAFETY DATA SHEET	Page : 1 / 12
		Revision nr : 1.0
	Food Grade Glycerin Hose Pump Lubricant	Issue date : 01/03/2023
		Supersedes : MSD132ENEU Rev. A

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

1.1. Product identifier

Product form	: Substance
Trade name	: Food Grade Glycerin Hose Pump Lubricant
Chemical name	: glycerol
EC-No.	: 200-289-5
CAS-No.	: 56-81-5
Part Number(s)	: 24K692, 24K694, 24M435, 24Y920
Formula	: C ₃ H ₈ O ₃
Document no.	: MSD132ENEU Rev. A

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

1.2.1. Relevant identified uses

Main use category	: Industrial use
Use of the substance/mixture	: Lubricant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

GRACO DISTRIBUTION BV
Slakweidestraat 31
3630 Maasmechelen - Belgium
T +32 89 770 700
reach@graco.com - www.graco.com

Other

GRACO Ltd.
29 Wellington St
LS1 4DL Leeds - United Kingdom
T 0800 404 76 60
reach@graco.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture


Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable.

	SAFETY DATA SHEET	Page : 2 / 12
		Revision nr : 1.0
		Issue date : 01/03/2023
	Food Grade Glycerin Hose Pump Lubricant	Supersedes :
		MSD132ENEU Rev. A

2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name : glycerol
CAS-No. : 56-81-5
EC-No. : 200-289-5

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
glycerol	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	99 – 100	Not classified

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.

Inhalation : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.

Ingestion : Rinse mouth thoroughly with water. Drink plenty of water. Get medical advice/attention.


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

Inhalation : Inhalation of vapours in high concentration may cause irritation of respiratory system.

Skin contact : May cause slight irritation.

Eyes contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.

Ingestion : On ingestion in large quantities: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

	SAFETY DATA SHEET	Page : 3 / 12
		Revision nr : 1.0
		Issue date : 01/03/2023
	Food Grade Glycerin Hose Pump Lubricant	Supersedes :
		MSD132ENEU Rev. A

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO₂), powder, alcohol-resistant foam, water spray.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Not flammable. Heating will cause a rise in pressure with a risk of bursting.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Propanal.

5.3. Advice for firefighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions


Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

	SAFETY DATA SHEET	Page : 4 / 12
		Revision nr : 1.0
		Issue date : 01/03/2023
	Food Grade Glycerin Hose Pump Lubricant	Supersedes :
MSD132ENEU Rev. A		

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures

: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Storage temperature

: > 18 °C

Heat and ignition sources

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight.

Special rules on packaging

: Containers which are opened should be properly resealed and kept upright to prevent leakage.

Packaging materials

: Keep only in the original container.


7.3. Specific end use(s)

Lubricant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

glycerol (56-81-5)		
Belgium	OEL TWA	10 mg/m ³ (mist)
Croatia	GVI (OEL TWA) [1]	10 mg/m ³
Czech Republic	PEL (OEL TWA)	10 mg/m ³
Estonia	OEL TWA	10 mg/m ³
Finland	HTP (OEL TWA) [1]	20 mg/m ³
France	VME (OEL TWA)	10 mg/m ³ (aerosol)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	200 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Greece	OEL TWA	10 mg/m ³
Poland	NDS (OEL TWA)	10 mg/m ³ (inhalable fraction)
Portugal	OEL TWA	10 mg/m ³ (mist)
Slovakia	NPHV (OEL TWA) [1]	11 mg/m ³
Slovenia	OEL TWA	200 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL	400 mg/m ³ (inhalable fraction)


	SAFETY DATA SHEET	Page : 5 / 12
		Revision nr : 1.0
	Food Grade Glycerin Hose Pump Lubricant	Issue date : 01/03/2023
		Supersedes : MSD132ENEU Rev. A

glycerol (56-81-5)		
Spain	VLA-ED (OEL TWA) [1]	10 mg/m ³ (mist)
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m ³ (mist)
United Kingdom	WEL STEL (OEL STEL)	30 mg/m ³ (calculated-mist)
Switzerland	MAK (OEL TWA) [1]	50 mg/m ³ (inhalable dust)
Switzerland	KZGW (OEL STEL)	100 mg/m ³ (inhalable dust)
Australia	OES TWA [1]	10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-inhalable dust, mist)
Canada (Quebec)	VEMP (OEL TWA)	10 mg/m ³ (mist)
USA - OSHA	OSHA PEL TWA [1]	15 mg/m ³ (mist, total particulate) 5 mg/m ³ (mist, respirable fraction)

Additional information	: Recommended monitoring procedures :. Personal air monitoring. Room air monitoring
8.2. Exposure controls	
Engineering measure(s)	: Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling.
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: Not determined. Breakthrough time : refer to the recommendations of the supplier. Thickness : Not determined. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Use suitable eye protection (EN166): Safety glasses with side shields. Safety goggles
Body protection	: Wear suitable protective clothing. Long sleeved clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: ABEK (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state	: Liquid
Appearance	: Liquid. clear.
Molecular weight	: 92,09 g/mol
Colour	: Colourless.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: 18 °C
Freezing point	: No data available

	SAFETY DATA SHEET	Page : 6 / 12
	Food Grade Glycerin Hose Pump Lubricant	Revision nr : 1.0
		Issue date : 01/03/2023
		Supersedes :
		MSD132ENEU Rev. A

Initial boiling point and boiling range	: 290 °C
Flash point	: ≈ 199 °C
Auto-ignition temperature	: 393 °C
Decomposition temperature	: No data available
Flammability	: Not applicable, liquid
Vapour pressure	: 1,0033 hPa (50 °C)
Vapour density	: No data available
Relative density	: > 1,249
Solubility	: Water: Miscible
Partition coefficient n-octanol/water	: -1,76
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity


None under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

	SAFETY DATA SHEET	Page : 7 / 12
		Revision nr : 1.0
		Issue date : 01/03/2023
	Food Grade Glycerin Hose Pump Lubricant	Supersedes :
MSD132ENEU Rev. A		

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Reference to other sections 5.2.

SECTION 11: Toxicological information

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

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

glycerol (56-81-5)	
LD50/oral/rat	12600 mg/kg
LD50/dermal/rat	21900 mg/kg
LD50/dermal/rabbit	> 10 g/kg
LC50/inhalation/4h/rat	> 2,75 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: No data available

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: No data available

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Food Grade Glycerin Hose Pump Lubricant (56-81-5)	
Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.


11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

	SAFETY DATA SHEET	Page : 8 / 12
		Revision nr : 1.0
	Food Grade Glycerin Hose Pump Lubricant	Issue date : 01/03/2023
		Supersedes : MSD132ENEU Rev. A

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Ecological problems are not known or expected under normal use.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

glycerol (56-81-5)	
LC50 - Fish [1]	51 – 57 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	500 mg/l (24 h, Daphnia Magna)

12.2. Persistence and degradability

Food Grade Glycerin Hose Pump Lubricant (56-81-5)	
Persistence and degradability	Readily biodegradable.

glycerol (56-81-5)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Food Grade Glycerin Hose Pump Lubricant (56-81-5)	
Partition coefficient n-octanol/water	-1,76
Bioaccumulative potential	No additional information available.


glycerol (56-81-5)	
BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water	-1,75 (at 25 °C (at pH 7.4)
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

Food Grade Glycerin Hose Pump Lubricant (56-81-5)	
Mobility in soil	No data available

12.5. Results of PBT and vPvB assessment

Food Grade Glycerin Hose Pump Lubricant (56-81-5)	
Results of PBT assessment	Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

	SAFETY DATA SHEET	Page : 9 / 12
		Revision nr : 1.0
		Issue date : 01/03/2023
	Food Grade Glycerin Hose Pump Lubricant	Supersedes :
MSD132ENEU Rev. A		

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects

Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user


Special precautions for user : No data available

- Overland transport

Not applicable

- Transport by sea

Not applicable

	SAFETY DATA SHEET	Page : 10 / 12
		Revision nr : 1.0
	Food Grade Glycerin Hose Pump Lubricant	Issue date : 01/03/2023
		Supersedes : MSD132ENEU Rev. A

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Not listed on REACH Annex XVII

Not listed on the REACH Candidate List

Not listed on REACH Annex XIV (Authorisation List)

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 116)

German storage class (LGK) : LGK 12 - Non-combustible liquids

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands


Waterbezwaarlijkheid : B (5) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

	SAFETY DATA SHEET	Page : 11 / 12
		Revision nr : 1.0
		Issue date : 01/03/2023
	Food Grade Glycerin Hose Pump Lubricant	Supersedes :
MSD132ENEU Rev. A		

SZW-lijst van reprotoxische stoffen – : The substance is not listed
Ontwikkeling

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out


SECTION 16: Other information

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). LOLI. Supplier information.

Training advice : Training staff on good practice.

	SAFETY DATA SHEET	Page : 12 / 12
	Food Grade Glycerin Hose Pump Lubricant	Revision nr : 1.0
		Issue date : 01/03/2023
		Supersedes :
		MSD132ENEU Rev. A

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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