



Safety Data Sheet

According to Regulation (EC) 1907/2006

SDS completed: 20.05.2020

Version No: 2

Revision No: 1

Supersedes: SDS Dated 12.06.2019

SECTION 3. COMPOSITION / INFORMATION OF INGREDIENTS

Component	CAS-No	EC No.	Weight %	Classification	EU - GHS/CLP	Notes
TETRAPOTASSIUM PYROPHOSPHATE	7320-34-5	-	2.5 - < 5	Xi; R36		
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	252-104-2	2.5 - < 5	-		
MONOPROPYLENE GLYCOL METHYL ETHER	107-98-2	203-539-1	1 - < 2.5	R10 R67	Flam. Liq. 3 (H226) STOT SE 3 (H336)	

SECTION 4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

General advice

Get medical attention immediately if symptoms occur.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Ingestion

Rinse mouth with water. If swallowed, seek medical advice and show this container or label.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Sensitization

No information available.

Eye contact

May cause irritation as itching and redness.

Skin contact

Unlikely to be irritant on brief or occasional exposure.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to physician



Manna Pro UK Limited | Suite 2, Barnack House, Southgate Way, Orton Southgate, PE2 6GP | 01733 404390



Safety Data Sheet

According to Regulation (EC) 1907/2006

SDS completed: 20.05.2020

Version No: 2

Revision No: 1

Supersedes: SDS Dated 12.06.2019

Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable Extinguishing Media

Water spray, Foam, Carbon dioxide (CO₂), Dry powder

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Oxides of phosphorus. Potassium oxides. Material can create slippery conditions.

5.3. ADVICE FOR FIREFIGHTERS

Firefighters should wear a self-contained breathing apparatus and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

6.2. ENVIRONMENTAL PRECAUTIONS

Avoid release of neat product into surface water and sanitary sewage system.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods for Containment

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. REFERENCE TO OTHER SECTIONS

Refer to sections 7, 8 and 13





Safety Data Sheet

According to Regulation (EC) 1907/2006

SDS completed: 12.06.2019

Version No: 2

Revision No: 1

Supersedes: SDS Dated 12.02.2013

SECTION 7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Ensure adequate ventilation.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

7.3. SPECIFIC ENDUSE(S)

No information available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Exposure limits

For substances

Component	European Union	The United Kingdom	France	Germany	Belgium
DIPROPYLENE GLYCOL METHYL ETHER		STEL: 150 ppm STEL: 924 mg/m ³ TWA: 50 ppm TWA: 308 mg/m ³ Skin	TWA: 50 ppm TWA: 308 mg/m ³ Skin	AGW: 50ppm AGW: 310mg/m ³ Peak: 50ppm Peak: 310mg/m ³ TWA: 50ppm TWA: 310mg/m ³	50 ppm TWA; 308 mg/m ³ TWA
MONOPROPYLENE GLYCOL METHYL ETHER		STEL: 150 ppm STEL: 560 mg/m ³ TWA: 100 ppm TWA: 375 mg/m ³ Skin	TWA: 50 ppm TWA: 188 mg/m ³ STEL: 100 ppm STEL: 375 mg/m ³ Skin	AGW: 100ppm AGW: 370mg/m ³ Peak: 200ppm Peak: 740mg/m ³ TWA: 100ppm TWA: 370mg/m ³ BGW: 15mg/L	150 ppm STEL; 568 mg/m ³ STEL 100 ppm TWA; 375 mg/m ³ TWA

Component	Austria	Switzerland	Spain	Portugal	Italy
DIPROPYLENE GLYCOL METHYL ETHER	Skin STEL: 100 ppm STEL: 614 mg/m ³ TWA: 50 ppm TWA: 307 mg/m ³	STEL: 50 ppm STEL: 300 mg/m ³ TWA: 50 ppm TWA: 300 mg/m ³	Skin TWA: 50 ppm TWA: 308 mg/m ³	STEL: 150 ppm TWA: 100 ppm Skin	TWA: 50 ppm TWA: 308 mg/m ³ Skin
MONOPROPYLENE GLYCOL METHYL ETHER	Skin STEL: 50 ppm STEL: 187 mg/m ³ TWA: 50 ppm TWA: 187 mg/m ³ Ceiling: 50 ppm Ceiling: 187 mg/m ³	STEL: 200 ppm STEL: 720 mg/m ³ TWA: 100 ppm TWA: 360 mg/m ³	Skin STEL: 150 ppm STEL: 568 mg/m ³ TVA: 100 ppm TWA: 375 mg/m ³	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³ Skin

Component	Denmark	Finland	Norway	Sweden	Estonia
DIPROPYLENE GLYCOL METHYL ETHER	TWA: 50 ppm TWA: 309 mg/m ³ Skin	TWA: 50 ppm TWA: 310 mg/m ³ Skin	TWA: 50 ppm TWA: 300 mg/m ³ Skin	50ppm NGV 300mg/m ³ NGV	





Safety Data Sheet

According to Regulation (EC) 1907/2006

SDS completed: 12.06.2019

Version No: 2

Revision No: 1

Supersedes: SDS Dated 12.02.2013

MONOPROPYLENE GLYCOL METHYL ETHER	TWA: 50 ppm TWA: 185 mg/m ³ Skin	TWA: 100 ppm TWA: 370 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³ Skin	TWA: 50 ppm TWA: 180 mg/m ³ Skin	50ppm NGV 190mg/m ³ NGV	
--------------------------------------	--	---	--	---------------------------------------	--

Component	Hungary	Czech	Poland	Slovakia	Ireland
DIPROPYLENE GLYCOL METHYL ETHER	CK-érték: 308 mg/m ³ ÁK-érték: 308 mg/m ³	PEL: 270mg/m ³ NPK-P: 550mg/m ³	NDSch: 480 mg/m ³ NDS: 240 mg/m ³	hranicny 568mg/m ³ 50ppm NPEL 308mg/m ³ NPEL	TWA: 50 ppm TWA: 308 mg/m ³ Skin

MONOPROPYLENE GLYCOL METHYL ETHER	CK-érték: 568 mg/m ³ ÁK-érték: 375 mg/m ³	PEL: 270mg/m ³ NPK-P: 550mg/m ³	NDSch: 360 mg/m ³ NDS: 180 mg/m ³	hranicny 568mg/m ³ 100ppm NPEL 375mg/m ³ NPEL	TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 568 mg/m ³
--------------------------------------	--	--	--	---	--



Manna Pro UK Limited | Suite 2, Barnack House, Southgate Way, Orton Southgate, PE2 6GP | 01733 404390



Safety Data Sheet

According to Regulation (EC) 1907/2006

SDS completed: 12.06.2019

Version No: 2

Revision No: 1

Supersedes: SDS Dated 12.02.2013

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Conforming to EN 143 eg P2 / P3 Particle filters.

8.2. EXPOSURE CONTROLS

Engineering Measures

General ventilation is normally adequate

Personal Protective Equipment

Use personal protection equipment as per Directive 89/686/EEC

Hand Protection

Long term use eg: continuous wear or immersion;. Wear suitable protective gloves conforming to EN 374. Type of gloves suggested :. Nitrile rubber. PVC. Neoprene gloves. For break through times, refer to glove manufacturers recommendations. Eye Protection

Safety glasses if the method of use presents the likelihood of eye contact. Approved to EN 166.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Information below relates to typical values and does not constitute a specification

Appearance	Colorless	Autoignition Temperature	Not combustible
Odor	Characteristic	Boiling Point/Range	100 °C
Physical State	Liquid	Melting Point/Range	0 °C
pH	9.5	Flammability Limits in Air %	Not applicable
Flash Point	> 61 °C	Evaporation Rate	No information available
Specific Gravity	1.05 g/cm3	Vapor Pressure	No information available
Viscosity	Fluid	Vapor Density	No information available
Solubility	Soluble in	Explosive properties	No information available
water		Oxidizing Properties	No information available
		VOC Content (%)	5.5 %



Manna Pro UK Limited | Suite 2, Barnack House, Southgate Way, Orton Southgate, PE2 6GP | 01733 404390



Safety Data Sheet

According to Regulation (EC) 1907/2006

SDS completed: 12.06.2019

Version No: 2

Revision No: 1

Supersedes: SDS Dated 12.02.2013

9.2. OTHER INFORMATION

No other information available

SECTION 10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Not considered as highly reactive. See further information below.

10.2. CHEMICAL STABILITY

Stable under normal conditions

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

The mixture itself will not dangerously react or polymerise to create hazardous conditions in normal use

10.4. CONDITIONS TO AVOID

No conditions to be specially mentioned

10.5. INCOMPATIBLE MATERIALS

No materials to be specially mentioned

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

None under normal storage conditions and use. When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and/or nitrogen oxide. Oxides of phosphorus. Potassium oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Product Information

The product itself has not been tested

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
DIPROPYLENE GLYCOL METHYL ETHER	= 5230 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	
MONOPROPYLENE GLYCOL METHYL ETHER	= 5200 mg/kg (Rat)	= 13 g/kg (Rabbit)	= 54.6 mg/L (Rat) 4 h > 24 mg/L (Rat) 1 h

Sensitization

No information available.

Skin contact

Unlikely to be irritant on brief or occasional exposure.

Eye contact

May cause irritation as itching and redness.

Carcinogenicity

There are no known carcinogenic substances in this product.

Mutagenic Effects

There are no known mutagenic substances in this product.



Manna Pro UK Limited | Suite 2, Barnack House, Southgate Way, Orton Southgate, PE2 6GP | 01733 404390



Safety Data Sheet

According to Regulation (EC) 1907/2006

SDS completed: 12.06.2019

Version No: 2

Revision No: 1

Supersedes: SDS Dated 12.02.2013

Reproductive Effects

There are no known substances in this product with effects on reproduction

SECTION 12. ECOLOGICAL INFORMATION

12.1. TOXICITY

Product Information

The product itself has not been tested.

Component	Toxicity to Fish	Water Flea	Toxicity to Algae
TETRAPOTASSIUM PYROPHOSPHATE	LC50 > 100 mg/L Oncorhynchus mykiss 96 h	EC50 > 100 mg/L 48 h	
DIPROPYLENE GLYCOL METHYL ETHER	LC50 > 10000 mg/L Pimephales promelas 96 h	LC50 = 1919 mg/L 48 h	
MONOPROPYLENE GLYCOL METHYL ETHER	LC50 = 20.8 g/L Pimephales promelas 96 h LC50 4600 - 10000 mg/L Leuciscus idus 96 h	EC50 = 23300 mg/L 48 h	

12.2. PERSISTENCE AND DEGRADABILITY

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. BIOACCUMULATIVE POTENTIAL

There is no test data on any of the components of this mixture.

Component	log Pow
DIPROPYLENE GLYCOL METHYL ETHER	-0.064
MONOPROPYLENE GLYCOL METHYL ETHER	-0.437

12.4. MOBILITY IN SOIL

Soluble in water.

12.5. RESULTS OF PBT AND VPVB ASSESSMENT



Manna Pro UK Limited | Suite 2, Barnack House, Southgate Way, Orton Southgate, PE2 6GP | 01733 404390

Website Detergent Ingredients List

The components in this formulation do not meet the criteria for classification as PBT or vPvB. As defined under the regulation EC 1907/2006.

12.6. OTHER ADVERSE EFFECTS

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products

The used product can be drained to sewage if it does not contain hazardous materials and the pH is neutral (typically 5.5 to 9).

Contaminated Packaging

Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal. Recycle according to official regulations.

EWC waste disposal No

The following EWC/ AVV waste codes may be applicable: 07 06 01* aqueous washing liquids and mother liquors
Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORT INFORMATION

Not classified for transport as dangerous goods

14.5. ENVIRONMENTAL HAZARDS

The mixture is not environmentally hazardous for transport.

14.6. SPECIAL PRECAUTIONS FOR USER

No special precautions.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

Packaged product, not typically transported in IBC's

The above information is based on latest transport regulations i.e. ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

SECTION 15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

This preparation is not classed as hazardous by Directive 1999/45/EC. In addition, Directive 2009/2/EC with the 31st Adaptation of Directive 67/548/EEC (Hazardous substances) has been taken into account. This is a detergent product and complies with the Detergent Regulation (EC) No.648/2004.

WGK Classification

Weakly water-endangering (WGK 1), Classification according VwVwS

Labelling for contents (REGULATION (EC) No 648/2004 - 907/2006):

< 5% phosphates, < 5% amphoteric surfactants

15.2. CHEMICAL SAFETY ASSESSMENT

No safety assessment has been created

SECTION 16. OTHER INFORMATION

ABBREVIATIONS

REACH: Registration Evaluation Authorisation Restriction of Chemicals EU: European Union
EC: European community
EEC: European Economic Community
UN: United Nations
CAS: Chemical Abstracts Service
PBT: Persistent
Bioaccumulative Toxic
vPvB: very Persistent very Bioaccumulative
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effective concentration, 50 percent
LogPow: LogP octanol/water
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe (Administrative order relating to substances hazardous to water - Germany)
WGK: Wassergefährdungsklasse (Water Hazard Class - Germany). AVV: Abfallverzeichnis-Verordnung (Waste Code - Germany)
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European agreement governing the international carriage of dangerous goods by road)
IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International carriage of Dangerous goods by rail)
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
ERG: Emergency Response Guidebook
IUCLID / RTECS: International Uniform Chemical Information Database / Registry of Toxic Effects of Chemical Substances
GHS: Globally Harmonised System of classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
VOC: Volatile Organic Chemical
w/w: weight for weight
DMSO: Dimethyl sulphoxide
OECD: Organization for Economic Cooperation and Development
STEL: Short Term Exposure Limit
TWA: Time Weighted Average

FURTHER INFORMATION

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
Component test results displayed in sections 11 and 12 are typically supplied by Chemadvisor and assembled from publicly available literature sources e.g. IUCLID / RTECS.

Website Detergent Ingredients List

DISCLAIMER

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

END
OF
SAFETY
DATA
SHEET

