

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

MemKare MK 660
25/05/2021
2.5
14/01/2024
24/08/2022
he substance or mixture and uses advised against Membrane Deposit Control Agent None known.

1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC Address: Street V. Kadirov 10, Chirchik city, Tashkent Region, Republic of Uzbekistan, 111727 Tel: +99871 209 10 40 Email address: info@pwch.uz www.pwch.uz

1.4. Emergency telephone number

Multilingual emergency number (24/7) Street V. Kadirov 10, Chirchik city, Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

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

This mixture does not mee	t the criteria for classification according to Regulation (EC) 1272/2008 as amended.
Hazard summary	Not available.
2.2. Label elements	
Label according to Regulatio	n (EC) No. 1272/2008 as amended
Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.
Precautionary statements	
Prevention	Not available.



Response	Not available.
Storage	Not available.
Disposal	Not available.
Supplemental label information	None.
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

Mixtures

Chemical description Phosphonate in water

The components are not hazardous or are below required disclosure limits.

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).

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
4.1. Description of first aid meas	ures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Rinse with water. 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	Exposure may cause temporary irritation, redness, or discomfort.	
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically.	
SECTION 5: Firefighting m	neasures	
General fire hazards	No unusual fire or explosion hazards noted.	
5.1. Extinguishing media Suitable extinguishing media	Water fog. Foam. Dry chemical powder.	
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	During fire, gases hazardous to health may be formed.	
5.3. Advice for firefighters Special protective	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	

Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.
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 personal protective equipment.		
For emergency responders	Keep unnecessary personnel away. For personal protection, see 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	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.		
	Small Spills: 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	Avoid prolonged exposure. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Only for industrial users

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Hygienic Normative 2.2.5.2439-09 "Maximum Allowable Concentrations (MAC) of Noxious Substances in the Working Zone Air", Executive No.76 of 30 April 2003. (Including addendums No. 1, 2, 3, and 4).

Components	Туре	Value	Form
Sodium chloride (CAS 7647-14-5)	Ceiling	5 mg/m3	Aerosol
iological limit values	No biological exposure limits noted for the ingredient(s).		
ecommended monitoring rocedures	Follow standard monitoring procedur	es.	
erived no effect levels DNELs)	Not available.		
redicted no effect oncentrations (PNECs)	Not available.		
2. Exposure controls			
ppropriate engineering ontrols	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.		
dividual protection measures	s, such as personal protective equipm	ent	
General information	Personal protection equipment shoul discussion with the supplier of the pe	0	CEN standards and in
Eye/face protection	Wear safety glasses with side shields CEN : EN 166	s (or goggles).	
Skin protection			

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- Hand protection	Suitable gloves can be recommended by the glove supplier. Protective gloves (Plastic, impervious) (Protection against unintentional short-term contact) Coating thickness: 0.5 mm Penetration time: > 480 min CEN : EN 420
- Other	Wear suitable protective clothing. CEN : EN ISO 13688
Respiratory protection	No personal respiratory protective equipment normally required.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	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 acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physic	al and chemical properties
Physical state	Liquid.
Form	Liquid
Colour	Colourless to yellow
Odour	Slight
Melting point/freezing point	-22 °C
Boiling point or initial boiling point and boiling range	102 °C
Flammability	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Flash point	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH (concentrated product)	7,6 Neat
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	100 %
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapour pressure	18 mmHg
Vapour pressure temp.	21 °C
Density and/or relative density	
Relative density	1,42
Relative density temperature	21 °C
Vapour density	< 1
Particle characteristics	Not available.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.



9.2.2. Other safety characteristics

Evaporation rate	Slower than Ether
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
pH in aqueous solution	7,9 (5% Solution)
Pour point	-19 °C
Shelf life	720 Days
Specific gravity	1,42
Viscosity	100 mPa.s
Viscosity temperature	25 °C
VOC	0 % Estimated

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	None under normal conditions.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx). Phosphorus compounds.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of ex	xposure
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.

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

Acute toxicity

Product	Species	Test Results
HYPERSPERSE MDC714 (Memk	Kare MK 660)	
Acute		
Oral		
LD50	Rat	> 5000 mg/kg (Calculated according to GHS additivity formula)
Skin corrosion/irritation	Based on available data, the classification criteria an	e not met.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritat	ion.
Respiratory sensitisation	Based on available data, the classification criteria ar	e not met.
Skin sensitisation	Based on available data, the classification criteria an	e not met.
Germ cell mutagenicity	Based on available data, the classification criteria ar	e not met.
Carcinogenicity	Based on available data, the classification criteria ar	e not met.
Reproductive toxicity	Based on available data, the classification criteria ar	e not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria ar	e not met.

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Specific target organ toxicity -	Based on	available data, the classification crit	eria are not met.	
repeated exposure				
Aspiration hazard	Based on	Based on available data, the classification criteria are not met.		
Mixture versus substance information	No inform	ation available.		
11.2. Information on other haza	rds			
Endocrine disrupting properties	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.			
Other information	Not availa	ble.		
SECTION 12: Ecological in	nformatio	n		
12.1. Toxicity	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.			
Product		Species	Test Results	
HYPERSPERSE MDC714 (Memk	Kare MK 660))		
Aquatic				
Crustacea	LC50	Daphnia magna	1366 mg/l, 48 hour	
	NOEL	Daphnia magna	1000 mg/l, 48 hour	
Fish	LC50	Fathead minnow	5098 mg/l, 96 hour	
		Rainbow trout	5464 mg/l, 96 hour	
	NOEL	Fathead minnow	2000 mg/l, 96 hour	
		Rainbow trout	4000 mg/l, 96 hour	
12.2. Persistence and degradab	ility			
- COD (mgO2/g)	-	ulated data)		
- BOD 5 (mgO2/g)	0 (calcula			
- BOD 28 (mgO2/g)	0 (calcula	,		
- Closed Bottle Test (%	22-23 OE	,		
Degradation in 28 days)				
 Zahn-Wellens Test (% Degradation in 28 days) 	23 OECD	302B		
- TOC (mg C/g)	38,5			
 Modified SCAS 	15-35% 1	26d OECD 302A		
12.3. Bioaccumulative potential	Not bioac	cumulating BCF: 22		
Partition coefficient n-octanol/water (log Kow)	Not availa	ble.		
Bioconcentration factor (BCF)	Not availa	able.		
12.4. Mobility in soil	No data a	vailable.		
12.5. Results of PBT and vPvB assessment		ure does not contain substances ass 907/2006, Annex XIII.	essed to be vPvB / PBT according to Regulation	
12.6. Endocrine disrupting properties	according	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.		
12.7. Other adverse effects			ozone depletion, photochemical ozone creation g potential) are expected from this component.	
SECTION 13: Disposal co	nsideratio	ons		
13.1. Waste treatment methods				
Residual waste	product re		s. Empty containers or liners may retain some her must be disposed of in a safe manner (see:	

Disposal instructions).

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Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. According to Controlled Waste Regulations.
	European List of Wastes (LoW) code recommendation : 15 01 02 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified. 15 01 Packaging (including separately collected municipal packaging waste). 15 01 02 Plastic packaging.
	Depending on the origin and state of the waste, other codes may be applicable too.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. According to Controlled Waste Regulations.
	European List of Wastes (LoW) code recommendation : 16 03 06 16 Wastes not otherwise specified in the list. 16 03 Off-specification batches and unused products. 16 03 06 Organic wastes Depending on the origin and state of the waste, other codes may be applicable too.
Special precautions	Dispose in accordance with all applicable regulations.

Special precautions

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended Not listed.

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

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended 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 Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use



Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

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 n	najor accident hazards involving dangerous substances, as amend	led
Not listed.		
Other regulations	The product is classified and labelled in accordance with Regulatio Regulation) as amended. This Safety Data Sheet complies with the (EC) No 1907/2006, as amended. Additional information is given in	e requirements of Regulation
National regulations	Follow national regulation for work with chemical agents in accorda amended.	nce with Directive 98/24/EC, as
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.	
Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
	ponents of this product comply with the inventory requirements administered by ore components of the product are not listed or exempt from listing on the invent	0 0 ,(,

SECTION 16: Other information

List of abbreviations

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. AICIS: Australian Inventory of Industrial Chemicals.
	CEN: European Committee for Standardization.
	CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
	EC50: Effective Concentration 50%.
	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.
	LC50: Lethal Concentration 50%.
	LD50: Lethal Dose 50%.
	MARPOL: International Convention for the Prevention of Pollution from Ships.
	NOEL: No observed effect level.
	PBT: Persistent, bioaccumulative and toxic.
	RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
	STEL: Short term exposure limit.
	TOC: Total Organic Carbon.
	vPvB: Very persistent and very bioaccumulative.
	EC-No: European Commission Number
	COD: Chemical Oxygen Demand
	IATA: International Air Transport Association
	BOD: Biochemical oxygen demand.
References	Safety data sheets of raw materials.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.



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Full text of any H-statements not written out in full under Sections 2 to 15	None.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
Training information	Follow training instructions when handling this material.
Disclaimer	The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.
Based on EC Directive / Regulations	(EC) No 1907/2006 (REACH) (EU) No 2020/878 (EC) No 1272/2008 (EU) No 1357/2014
Further information	Correction in Section: 2,3,4,5,6,7,8,9,10,11,12