☒ **SAFETY INFORMATION DATA SHEET** ☐

Date: 07.10.2011 **Last date:**

CHAPTER 1: IDENTIFYING INFORMATION OF SUBSTANCE OR MIXTURE AND THE COMPANY

1.1 Product identification

Trade name / name of subst. **MOTOVÄRI PG**

Code

REACH registration number **This product does not have a registration number, because the substance or its use is exempt from registration according to the REACH setting (EY) number 1907/2 article 2.**

1.2 Acknowledged uses of the substance or mixture and uses, which are not recommended

Intent of use verbally Timber marking

Industry code -

Use code -

The chemical can be used for general consumption ☐

The chemical is only used for general consumption ☐

1.3 Information of the supplier of the safety information data sheet

Manufacturer

Jarmat Oy

Address Pitkälahdenkatu 5

Postal code and city 74120 IISALMI

P.O. box

Postal code and city

Phone +358 10 2293210 , +358 440 363535

Email matti.kyllonen@jarmat.fi , internet : http://www.jarmat.fi

VAT code FI16345265

1.4 Emergency number

General emergency number 112

Poison information center +358 9 471977 / +358 9 4711 (switch)

CHAPTER 2: IDENTIFICATION OF DANGER

2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to the European Union laws.

2.2 Notes

Notes (ACT (EY) no. 1272/2008)

Not dangerous substance according to the globally harmonized system of classification and labeling of chemicals (GHS).

The product does not need to be noted according to the EU-directives or equivalent national statutes.

2.3 Other hazards

Unknown

CHAPTER 3: COMPOSITION AND INFORMATION ON INGREDIENTS

3.1 Substances

Name of main ingredient	Does not contain substances that, according to the supplier's current knowledge and applicable content amounts, are classified dangerous to health or environment and should therefore be reported in this section.	**CAS-, EY- or index no.**	
Name of ingredient		**CAS-, EY- or index no.**	

3.2 Mixtures

Name of substance	CAS-, EY- or index no.	REACH registration no.	Content	Classification
Does not contain substances that, according to the supplier's current knowledge and applicable content amounts, are classified dangerous to health or environment and should therefore be reported in this section.				

CHAPTER 4: FIRST AID PROCEDURES

4.1 Description of first aid procedures

Eye contact : Rinse eyes immediately with plenty of water, lifting upper and lower eyelid from time to time. Check for contact lenses and remove them. Seek medical help if irritation occurs.
Inhalation : Move the exposed to fresh air.
Skin contact : Rinse with plenty of water. Contaminated clothing must be taken off.
Swallowing : The exposed must be given water to drink immediately. Seek medical help if symptoms occur.

4.2 Most important symptoms and effects, both immediate and delayed

Bluish skin, abdominal pain, drowsiness, diarrhea, vomiting, headache, irritating effects

4.3 Instructions on possibly needed immediate medical help and special treatment

Information for medical experts : After inhaling residue from a fire, the onset of symptoms can be delayed. An exposed person might need to be kept under observation for two days.
Special treatment : No special treatment.

CHAPTER 5: FIRE FIGHTING PROCEDURES

5.1 Extinguishing substances

Applicable extinguishing substance : Use extinguishing substance suited for the surrounding area: carbon dioxide, dry chemicals, foam or stream of water.
Non-applicable extinguishing substance : This mixture has not been given restrictions on extinguishing substances.

5.2 Specific threats from the substance or mixture

Burning substances : the fumes are heavier than air and spread along the floor.
Forms explosive mixtures with air when strongly heated.
In the event of a fire, it is possible for harmful fumes to form.
Acrolein can be formed in a fire.

5.3 Instructions concerning fire fighting

Special firefighter protective equipment : The firefighters need to use appropriate protective equipment: Independent pressurized breathing device with full mask and overpressure
Firefighter clothing (boots, gloves and helmets) that meet the EN 469 standards guarantee basic protection in the event of a chemical accident.

Additional information : Gases, fumes and mists are dispersed by spraying with water.

CHAPTER 6: METHODS OF ACTION IN THE EVENT OF AN ACCIDENTAL DISCHARGE

6.1 Safety precautions, personal protective gear and procedures in the event of emergency

Guidelines to others than emergency personnel: Avoid breathing in the fumes. Evacuate danger zone, follow the emergency instructions and contact an expert.

To the emergency personnel: Protective equipment, see chapter 8.

6.2 Precautions concerning the environment

Dilute with plenty of water.

6.3 Methods and equipment concerning protective structures and cleaning

Absorb to a non-reactive material (see chapters 7.2 and 10.5) and put in an appropriate waste disposal container.

6.4 References to other chapters

Instructions on waste management, see chapter 13.

CHAPTER 7: HANDLING AND STORAGING

7.1 Prerequisite methods for safe handling

Guidelines on general work hygiene: Good hygiene practices

7.2 Prerequisite conditions for safe storaging, including incompatibilities

Store in original packaging protected from direct sunlight.

7.3 Special end usage

Besides the one stated in chapter 1.2, there are no other methods of use.

CHAPTER 8: EXPOSURE PREVETION AND PERSONAL PROTECTIVE GEAR

8.1 Variables concerning supervision

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8.2 Exposure prevention

Technical prevention methods

Personal protection is based primarily on technical methods and appropriate working manners, in addition personal protective gear is used. See chapter 7.1

Protection of eyes and face

Safety glasses

Skin protection
Protective clothing

Hand protection

Nitrile rubber

Respiratory protection

Necessary if fumes are formed.
Recommended filter type A-(P2)
Thermic hazards
Unknown
Prevention of environmental exposure

Avoid access of the spilt liquid to the soil, bodies of water and sewers.

CHAPTER 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State	Liquid
Odour	Mild
Odour threshold	Unknown
pH	4-8
Melting or freezing point	-42 °C
Boiling point	290 °C
Flashpoint	199 °C Method:c.c.
Evaporation speed	Not available
Flammability (solid substances, gases)	Not available
Highest and lowest flammability and explosive limit	Not available
Steam pressure	<0,001hPa (20 °C)
Steam density	Not available
Relative density	1,1
Solubility (solubilities)	Fully soluble
Partitium coefficient: n-octanol/water	log Po/w=-1,76 Method: (experimental) (Lit.) low accumulation
Point of spontaneous combustion	Information not available
Decomposition temperature	>290 °C
Viscosity	Not available
Explosiveness	Not available
Oxidization	Not available

9.2 Other information

Ignition temperature >400 °C

CHAPTER 10: STABILITY AND REACTIVITY

10.1 Reactivity

Forms explosive mixtures with air when heated strongly.

10.2 Chemical stability

Product is stabile

10.3 Possibility of dangerous reactions

Under normal storage and usage conditions reactions will not occur.

10.4 Conditions to avoid

Strong heating

10.5 Incompatible materials

Information not available

10.6 Harmless decay byproducts

In case of fire: See chapter 5.2

CHAPTER 11: INFORMATION REGARDING TOXICITY

11.1 Information on toxic effects

Immediate toxicity

Orally: LD50 rat Dose:>12600mg/kg (IUCLID)
Symptoms:Vomiting, abdominal pain, diarrhea
Dermally : LD50 rabbit Dose:>18700mg/kg (IUCLID)

Skin corrositon / irritation
Rabbit No irritation (IUCLID)

Serious eye damage / irritation

Rabbit Does not cause eye irritation (OECD TG 405)
Respiratory or skin sensitization
Patch test Human: Negative (IUCLID)

Gamete genome damaging effects

No known significant effects or serious dangers
Cancer causing effects
No known significant effects or serious dangers
Effects dangerous to reproduction
No known significant effects or serious dangers

Organ-specific toxicity – one-time exposure

No known significant effects or serious dangers
Organ-specific toxicity – repeated exposure
No known significant effects or serious dangers

Dangers of aspiration

Classification criterias are not met by the information available
Other information
Effects on the body: If large amounts ingested; bluishness of the skin, headache, sleepiness.
Must be hanled in accordance of good work hygiene and safety policies.

CHAPTER 12: INFORMATION ON HAZARDS TO THE ENVIRONMENT

12.1 Toxicity

Toxicity: fish LC50 Carassius auratus (gold fish) Dose: >5000mg/l Exposure time 24h (Lit.)
Daphnia and other water invertebraes (E.sulcatum) EC5 Dose 3200mg/l 72h (Lit.)
EC50 Daphnia magna (water flea) Dose >10000mg/l (IUCLID)
IC5 Scenedesmus quadricauda (green chlorococcal alga) Dose >10000mg/l 7d (Lit.)
EC5 Pseudomonas putida Dose >10000mg/l 16h (Lit.)

12.2 Stability and biodegradiability

The substance is easily biodegradeable 63% 14d OECD TG 301C.

Biochemical oxygen consumption (BOD) 870mg/g (5d)
Chemical oxygen consumption (COD) 1160mg/g
Theoretical oxygen consumption (ThOD) 1217 mg/g
Ratio BOD/ThBOD BOD5 71%
Ratio COD/ThBOD 95%

12.3 Bioaccumulation

Log Po/w=-1,76 (experimental); low accumulation.

12.4 Mobility in the soil

Not available.

12.5 PBT- ja vPvB-arvioinnin tulokset

Assessment has not been conducted because chemical safety assessment is not required / has not been carried out

12.6 Other harmful effects

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CHAPTER 13: ASPECTS OF WASTE MANAGEMENT

13.1 Waste management methods

To be disposed of according to the instructions of a local or national waste management officials, or to be delivered to an authorized waste management company. Packaging material waste should be recycled. Avoid leakage of the product to bodies of water and to the soil.

CHAPTER 14: TRANSPORT INFORMATION

14.1 UN-number

None

14.2 Official name used in transportation

None

14.3 Hazard lever of transportation

No hazard level according to the transportation regulations.

14.4 Packaging group

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14.5 Enviromental hazards

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14.6 Special safety precautions for user

Not available

14.7 Bulk transporting according to the MARPOL 73/78 agreement II with appendixes and to the IBC rules

Not available

KOHTA 15: INFORMATION ON REGULATIONS AND LAW

15.1 Safety-, health- and environmental regulations or -laws explicitly concerning the substance or mixture

EU-rulings

Catastrophe 96/82/EC
Ruling Directive 96/82/EY not applicable

15.2 Chemical safety assessment

This product has not had chemical safety assessment.

CHAPTER 16: OTHER INFORMATION

Changes to the previous version

Explanation of abbreviations

Sources of information

Safety data sheets of the manufacturers.

Used method in assessment of classification

List of R- and S-clauses and/or danger- and safety clauses

None

Employee training