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SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: PATE BLANCHE NANOLUBRICANT

Product code: 2030.

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

Lubricant

1.3. Details of the supplier of the safety data sheet

Registered company name: ORAPI.

Address: PARC INDUSTRIEL DE LA PLAINE DE L'AIN - 5 ALLEE DES CEDRES.01150.SAINT-VULBAS.FRANCE.

Telephone: 33-(0)4-74-40-20-00. Fax: 33-(0)4-74-40-20-01.

fds@orapi.com

1.4. Emergency telephone number: 33-(0)1-45-42-59-59.

Association/Organisation: INRS.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

No labelling requirements for this mixture.

Risk phrase:

Safety data sheet available for professional user on request.

2.3. Other hazards

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

3.2. Mixtures

Composition:

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 7722-88-5	GHS07, GHS05	Xn		$0 \le x \% < 2.5$
EC: 231-767-1	Dgr	Xn;R22		
	Acute Tox. 4, H302	Xi;R41		
TETRASODIUM PYROPHOSPHATE	Eye Dam. 1, H318			
CAS: 128-37-0	GHS09	N		0 <= x % < 2.5
EC: 204-881-4	Wng	N;R50/53		
	Aquatic Chronic 1, H410			
BUTYLATED HYDROXYTOLUENE				

SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

Bring to the fresh air.

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In the event of splashes or contact with eyes:

Wash abundantly with fresh and clean water during 15 minutes by maintaining the isolated eyelids.

If there is any pain, redness or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Remove clothing impregnated and wash carefully the skin with some water and some soap or use a known cleaner.

In the event of swallowing:

Seek medical attention, showing the label.

Do not induce vomiting.

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

No data available.

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

No data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- foam
- powder
- carbon dioxide (CO2)

Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- hydrogen fluoride (HF)
- COF2

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

To contain and collect the leakages with noncombustible materials absorbing: sand, ground in barrels for the waste disposal.

6.4. Reference to other sections

No data available.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Fire prevention:

Prevent access by unauthorised personnel.

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Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container away from heat, bad weather, dampness and freezing.

Keep container tightly closed in a cool dry place.

CAS

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Occupational exposure limits:

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

Cailing:

Definition :

STEL .

CAS	IWA.	BILL.	cening.	Deminion.	Cincila.		
128-37-0	2 mg/m3	-	-	-	IVA		
- France (INRS - ED984 :2008) :							
CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No:	
7722-88-5	-	5	-	-	-	-	
128-37-0	-	10	-	-	-	-	
- Switzerland (SUVA 2009):							

CAS	VME-mg/n	n3: VME-ppm:	VLE-mg/m3	: VLE-ppm:	Temps:	RSB:
7722-88-5	5i	-	-	-	-	-
128-37-0	10 i	-	-	-	_	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7722-88-5	5 mg/m3	-	-	-	-
128-37-0	10 mg/m3	-	-	-	-

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended:

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

In the event of insufficient ventilation, wear a respiratory apparatus of protection.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state: paste.

Important health, safety and environmental information

pH: Not relevant. Boiling point/boiling range: not specified. Flash point interval: not relevant. Vapour pressure: not relevant. Density: not stated. Water solubility: Insoluble. Melting point/melting range: not specified. Self-ignition temperature : not specified. Decomposition point/decomposition range: not specified.

9.2. Other information

Colour: white

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid:

- heat
- flames and hot surfaces

10.5. Incompatible materials

Keep away from:

- strong oxidising agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- hydrogen fluoride (HF)
- COF2

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No data available.

11.1.1. Substances

No toxicological data available for the substances.

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

Substances classified as category 1 chronic toxicity:

BUTYLATED HYDROXYTOLUENE (CAS: 128-37-0)

Fish toxicity: Duration of exposure: 48 h

CL50 = 5 mg/l

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Species: Oryzias latipes

Algae toxicity: Duration of exposure: 72 h

CEr50 = 0.43 mg/l

Species: Desmodesmus subspicatus

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12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2012).

SECTION 15: REGULATORY INFORMATION

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

- Particular provisions:

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16: OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Title for H, EUH and R indications mentioned in section 3:

H302 Harmful if swallowed. H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

R 22 Harmful if swallowed. SAFETY DATA SHEET (REGULATION (EC) No 1907/2006 - REACH)

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R 41 Risk of serious damage to eyes.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK: Wassergefahrdungsklasse (Water Hazard Class).