

VDW.ROTATE and RECIPROC® blue

VDW GmbH

Chemwatch: 5617-82 Version No: 2.1

Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Chemwatch Hazard Alert Code: 2

Issue Date: **26/07/2023**Print Date: **12/01/2024**S.REACH.DEU.EN.E

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

1.1. Product Identifier

Product name	/DW.ROTATE and RECIPROC® blue			
Synonyms	No.: V040258*, M00VRGPF00*; Part No.: V040258*; M00VRGPF00*			
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide)			
Other means of identification	Not Available			

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

Relevant identified uses	Use according to manufacturer's directions.		
Uses advised against	No specific uses advised against are identified.		

1.3. Details of the manufacturer or supplier of the safety data sheet

	The state of the s		
Registered company name	VDW GmbH		
Address	Bayerwaldstrasse 15 Munich 81737 Germany		
Telephone	+49 (0)89 627340		
Fax	+49 (0)89 62734-190		
Website	www.vdw-dental.com		
Email	info@vdw-dental.com		

1.4. Emergency telephone number

Association / Organisation	Berliner Betrieb für Zentrale gesundheitliche Aufgaben, Institute for Toxicology, Clinical toxicology and Poison information Centre Berlin			
Emergency telephone numbers	+49-(0)30-19240	+49 32 211121704		
Other emergency telephone numbers	Not Available	+61 3 9573 3188		

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments ^[1]

H317 - Sensitisation (Skin) Category 1, H400 - Hazardous to the Aquatic Environment Acute Hazard Category 1, H410 - Hazardous to the Aquatic Environment Long-Term Hazard Category 1

Legend:

1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

2.2. Label elements

Hazard pictogram(s)





Signal word

Warning

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H317	May cause an allergic skin reaction.	
H410	Very toxic to aquatic life with long lasting effects.	

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P280	/ear protective gloves and protective clothing.		
P261	Avoid breathing dust/fumes.		
P273	Avoid release to the environment.		
P272	Contaminated work clothing should not be allowed out of the workplace.		

Precautionary statement(s) Response

P302+P352	F ON SKIN: Wash with plenty of water and soap.		
P333+P313	irritation or rash occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P391	Collect spillage.		

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

Inhalation may produce health damage*.

Cumulative effects may result following exposure*.

May produce discomfort of the eyes, respiratory tract and skin*.

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 1314-13-2 2.215-222-5 3.030-013-00-7 4.Not Available	45-55	zinc.oxide	Hazardous to the Aquatic Environment Acute Hazard Category 1, Hazardous to the Aquatic Environment Long-Term Hazard Category 1; H400, H410 [2]	Not Available	Not Available
1. 9000-32-2 2.232-537-3 3.Not Available 4.Not Available	20-30	trans-1,4-polyisoprene (Gutta-percha)	Not Classified [1]	Not Available	Not Available
Legend:	Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties				

SECTION 4 First aid measures

4.1. Description of first aid measures				
Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.			
Skin Contact	If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.			
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. 			

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- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- ► Transport to hospital, or doctor, without delay.
- ▶ Give a slurry of activated charcoal in water to drink. **NEVER** GIVE AN UNCONSCIOUS PATIENT WATER TO DRINK.
- ▶ At least 3 tablespoons in a glass of water should be given
- Although induction of vomitting may be recommended (IN CONSCIOUS PERSONS ONLY), such a first aid measure is dissuaded due to the risk of aspiration of stomach contents. (i) It is better to take the patient to a doctor who can decide on the necessity and method of emptying the stomach. (ii) Special circumstances may however exist; these include non-availability of charcoal and the ready availability of the doctor.

NOTE: If vomiting is induced, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration

Ingestion

NOTE: Wear protective gloves when inducing vomiting

- ▶ REFER FOR MEDICAL ATTENTION WITHOUT DELAY.
- In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.
- If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.
- If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. (ICSC20305/20307)

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

- Absorption of zinc compounds occurs in the small intestine.
- The metal is heavily protein bound.
- Elimination results primarily from faecal excretion.
- The usual measures for decontamination (Ipecac Syrup, lavage, charcoal or cathartics) may be administered, although patients usually have sufficient vomiting not to require them
- ► CaNa2EDTA has been used successfully to normalise zinc levels and is the agent of choice.

[Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Water spray or fog.
- ► Foam.
- Dry chemical powder.
- ► BCF (where regulations permit).
- Carbon dioxide

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

5.3. Advice for firefighters

- Alert Fire Brigade and tell them location and nature of hazard.
 - ▶ Wear breathing apparatus plus protective gloves in the event of a fire.
 - Prevent, by any means available, spillage from entering drains or water courses
- Use fire fighting procedures suitable for surrounding area. Fire Fighting
 - ▶ DO NOT approach containers suspected to be hot.
 - Cool fire exposed containers with water spray from a protected location.
 - If safe to do so, remove containers from path of fire
 - Equipment should be thoroughly decontaminated after use

▶ Solid which exhibits difficult combustion or is difficult to ignite.

- Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion.
- Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited; once initiated larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.
- A dust explosion may release large quantities of gaseous products; this in turn creates a subsequent pressure rise of explosive force capable of damaging plant and buildings and injuring people.
- Usually the initial or primary explosion takes place in a confined space such as plant or machinery, and can be of sufficient force to damage or rupture the plant. If the shock wave from the primary explosion enters the surrounding area, it will disturb any settled dust layers, forming a second dust cloud, and often initiate a much larger secondary explosion. All large scale explosions have resulted from chain reactions of this
- P Dry dust can also be charged electrostatically by turbulence, pneumatic transport, pouring, in exhaust ducts and during transport.
- ▶ Build-up of electrostatic charge may be prevented by bonding and grounding.
- Powder handling equipment such as dust collectors, dryers and mills may require additional protection measures such as explosion venting.
- All movable parts coming in contact with this material should have a speed of less than 1-metre/sec

Combustion products include: carbon monoxide (CO)

carbon dioxide (CO2)

metal oxides

other pyrolysis products typical of burning organic material

SECTION 6 Accidental release measures

Fire/Explosion Hazard

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

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6.2. Environmental precautions

See section 12

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6.3. Methods and material for containment and cleaning up

Remove all ignition sources Clean up all spills immediately. Avoid contact with skin and eyes. **Minor Spills** ▶ Control personal contact with the substance, by using protective equipment. Use dry clean up procedures and avoid generating dust Place in a suitable, labelled container for waste disposal. Environmental hazard - contain spillage

Environmental hazard - contain spillage.

Moderate hazard.

- **CAUTION**: Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.
- Control personal contact by wearing protective clothing.

Major Spills

- Prevent, by any means available, spillage from entering drains or water courses.
- Recover product wherever possible.
- FIF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise Emergency Services

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

- ▶ Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- ► DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
- Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)
- Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.
- Safe handling Establish good housekeeping practices.
 - Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.
 - Luse continuous suction at points of dust generation to capture and minimise the accumulation of dusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimise the probability of a "secondary" explosion. According to NFPA Standard 654, dust layers 1/32 in.(0.8 mm) thick can be sufficient to warrant immediate cleaning of the area.
 - Do not use air hoses for cleaning.
 - Minimise dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Vacuums with explosion-proof motors should be used.
 - Control sources of static electricity. Dusts or their packages may accumulate static charges, and static discharge can be a source of ignition.
 - ▶ Solids handling systems must be designed in accordance with applicable standards (e.g. NFPA including 654 and 77) and other national quidance.
 - Do not empty directly into flammable solvents or in the presence of flammable vapors.
 - The operator, the packaging container and all equipment must be grounded with electrical bonding and grounding systems. Plastic bags and plastics cannot be grounded, and antistatic bags do not completely protect against development of static charges

Empty containers may contain residual dust which has the potential to accumulate following settling. Such dusts may explode in the presence of an appropriate ignition source.

- Do NOT cut, drill, grind or weld such containers.
- In addition ensure such activity is not performed near full, partially empty or empty containers without appropriate workplace safety authorisation or permit.

Fire and explosion protection

See section 5

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry area protected from environmental extremes.
- Store away from incompatible materials and foodstuff containers
- Protect containers against physical damage and check regularly for leaks.

Other information For major quantities:

Observe manufacturer's storage and handling recommendations contained within this SDS.

Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).

Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities

7.2. Conditions for safe storage, including any incompatibilities

Suitable container

Polvethylene or polypropylene container.

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	Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid strong acids, bases. Avoid reaction with oxidising agents
Hazard categories in accordance with Regulation (EC) No 1272/2008	E1: Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	E1 Lower- / Upper-tier requirements: 100 / 200

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
	Dermal 83 mg/kg bw/day (Systemic, Chronic)	0.19 μg/L (Water (Fresh))
	Inhalation 2 mg/m³ (Systemic, Chronic)	1.2 μg/L (Water - Intermittent release)
	Inhalation 4 µg/m³ (Local, Chronic)	1.14 µg/L (Water (Marine))
zinc oxide	Inhalation 2 mg/m³ (Systemic, Acute)	18 mg/kg sediment dw (Sediment (Fresh Water))
ZITIC OXIGE	Dermal 83 mg/kg bw/day (Systemic, Chronic) *	6.4 mg/kg sediment dw (Sediment (Marine))
	Inhalation 1 mg/m³ (Systemic, Chronic) *	0.7 mg/kg soil dw (Soil)
	Oral 0.83 mg/kg bw/day (Systemic, Chronic) *	20 μg/L (STP)
	Inhalation 1 mg/m³ (Systemic, Acute) *	0.16 mg/kg food (Oral)

^{*} Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Germany Recommended Exposure Limits - MAK Values	zinc oxide	Zinc and its inorganic compounds (respirable fraction)	0.1 mg/m3	0.4 mg/m3	Not Available	Preg gr: C; Classification in Pregnancy Risk Group C was re-evaluated in 2011 and confirmed.
Germany Recommended Exposure Limits - MAK Values	zinc oxide	Zinc and its inorganic compounds (inhalable fraction)	2 mg/m3	4; 2 mg/m3	Not Available	Preg gr. C; Classification in Pregnancy Risk Group C was re-evaluated in 2011 and confirmed.
Germany Recommended Exposure Limits - MAK Values	zinc oxide	Dust, general limit value (inhalable fraction)	4 mg/m3	Not Available	Not Available	see section Vf and g
Germany Recommended Exposure Limits - MAK Values	zinc oxide	Dust, general limit value (respirable fraction) (biopersistent granular dusts)	0.3 mg/m3	2.4 mg/m3	Not Available	except for ultrafine particles; see section Vh; see section Vf; for dusts with a density of 1 g/cm³; Preg gr: C; Carc cat: 4
Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)	zinc oxide	Allgemeiner Staubgrenzwert (siehe auch Nummer 2.4) Einatembare Fraktion	10 mg/m3	Not Available	Not Available	Not Available
Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)	zinc oxide	Allgemeiner Staubgrenzwert (siehe auch Nummer 2.4) Alveolengängige Fraktion	1.25 mg/m3	Not Available	Not Available	Not Available
Germany Recommended Exposure Limits - MAK Values	trans- 1,4-polyisoprene (Gutta-percha)	Dust, general limit value (inhalable fraction)	4 mg/m3	Not Available	Not Available	see section Vf and g
Germany Recommended Exposure Limits - MAK Values	trans- 1,4-polyisoprene (Gutta-percha)	Dust, general limit value (respirable fraction) (biopersistent granular dusts)	0.3 mg/m3	2.4 mg/m3	Not Available	except for ultrafine particles; see section Vh; see section Vf; for dusts with a density of 1 g/cm³; Preg gr: C; Carc cat: 4
Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)	trans- 1,4-polyisoprene (Gutta-percha)	Allgemeiner Staubgrenzwert (siehe auch Nummer 2.4) Einatembare Fraktion	10 mg/m3	Not Available	Not Available	Not Available
Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)	trans- 1,4-polyisoprene (Gutta-percha)	Allgemeiner Staubgrenzwert (siehe auch Nummer 2.4) Alveolengängige Fraktion	1.25 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
zinc oxide	10 mg/m3	15 mg/m3	2,500 mg/m3

Elito oxido	10 mg/mo	109/0		2,000g
Ingredient	Original IDLH	Re	evised IDLH	
zinc oxide	500 mg/m3	No	lot Available	
trans-1,4-polyisoprene (Gutta- percha)	Not Available	No	lot Available	

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8.2. Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

8.2.1. Appropriate engineering controls

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations. producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

8.2.2. Individual protection measures, such as personal protective equipment









▶ Safety glasses with unperforated side shields may be used where continuous eye protection is desirable, as in laboratories; spectacles are not sufficient where complete eye protection is needed such as when handling bulk-quantities, where there is a danger of splashing, or if the material may be under pressure.

- Chemical goggles. Whenever there is a danger of the material coming in contact with the eyes; goggles must be properly fitted. [AS/NZS 1337.1, EN166 or national equivalent]
- Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these afford face protection
- Alternatively a gas mask may replace splash goggles and face shields.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eve irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Hands/feet protection

Eye and face protection

Skin protection See Hand protection below

► Elbow length PVC gloves

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- · frequency and duration of contact,
- · chemical resistance of glove material,
- · glove thickness and

dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- · Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

· Excellent when breakthrough time > 480 min

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 \cdot Good when breakthrough time > 20 min · Fair when breakthrough time < 20 min · Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. polychloroprene. nitrile rubber. butyl rubber. fluorocaoutchouc. polyvinyl chloride Gloves should be examined for wear and/ or degradation constantly. See Other protection below **Body protection**

Respiratory protection

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- \cdot Use approved positive flow mask if significant quantities of dust becomes airborne.

Overalls.P.V.C apron.

Barrier cream.Skin cleansing cream.Eye wash unit.

· Try to avoid creating dust conditions.

Other protection

Class P2 particulate filters are used for protection against mechanically and thermally generated particulates or both.

P2 is a respiratory filter rating under various international standards, Filters at least 94% of airborne particles Suitable for:

- Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.
- · Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.
- · Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Pink cylindrical shape solid; insoluble in water.				
Physical state	Manufactured Relative density (Water = 1) Not Available				
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable		
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Applicable		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	Not Applicable	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Not Applicable	Oxidising properties	Not Available		
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Applicable		

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Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11 1 Informat	ion on hazard cla	sses as defined in I	Regulation (FC) N	Jo 1272/2008

11.1. Information on hazard cla	asses as defined in Regulation (EC) No 1272/2008
Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Effects on lungs are significantly enhanced in the presence of respirable particles.
Ingestion	Soluble zinc salts produce irritation and corrosion of the alimentary tract with pain, and vomiting. Death can occur due to insufficiency of food intake due to severe narrowing of the oesophagus and pylorus.
Skin Contact	There is some evidence to suggest that the material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Repeated or excessive handling, coupled with poor personal hygiene, may result in acne-like eruptions known as "zinc oxide pox".
Eye	There is some evidence to suggest that this material can cause eye irritation and damage in some persons.
Chronic	Welding or flame cutting of metals with zinc or zinc dust coatings may result in inhalation of zinc oxide fume; high concentrations of zinc oxide fume may result in "metal fume fever"; also known as "brass chills", an industrial disease of short duration. [I.L.O] Symptoms include malaise, fever, weakness, nausea and may appear quickly if operations occur in enclosed or poorly ventilated areas. Overexposure to the breathable dust may cause coughing, wheezing, difficulty in breathing and impaired lung function. Chronic symptoms may include decreased vital lung capacity and chest infections. Repeated exposures in the workplace to high levels of fine-divided dusts may produce a condition known as pneumoconiosis, which is the lodgement of any inhaled dusts in the lung, irrespective of the effect. This is particularly true when a significant number of particles less than 0.5 microns (1/50000 inch) are present. Lung shadows are seen in the X-ray. Symptoms of pneumoconiosis may include a progressive dry cough, shortness of breath on exertion, increased chest expansion, weakness and weight loss. As the disease progresses, the cough produces stringy phlegm, vital capacity decreases further, and shortness of breath becomes more severe. Other signs or symptoms include changed breath sounds, reduced oxygen uptake during exercise, emphysema and rarely, pneumothorax (air in the lung cavity). Removing workers from the possibility of further exposure to dust generally stops the progress of lung abnormalities. When there is high potential for worker exposure, examinations at regular period with emphasis on lung function should be performed. Inhaling dust over an extended number of years may cause pneumoconiosis, which is the accumulation of dusts in the lungs and the subsequent tissue reaction. This may or may not be reversible. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

VDW.ROTATE and RECIPROC® blue	TOXICITY Not Available	IRRITATION Not Available
	TOXICITY	IRRITATION
zinc oxide	dermal (rat) LD50: >2000 mg/kg ^[1] Inhalation(Rat) LC50: >1.79 mg/l4h ^[1]	Eye (rabbit) : 500 mg/24 h - mild Eye: no adverse effect observed (not irritating) ^[1]
	Oral (Rat) LD50: >5000 mg/kg ^[1]	Skin (rabbit) : 500 mg/24 h- mild
		Skin: no adverse effect observed (not irritating) $[1]$

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trans-1,4-polyisoprene (Gutta-	TOXICITY	IRRITATION	
percha)	Not Available	Not Available	
Legend:	Value obtained from Europe ECHA Registered Substracted from RTECS - Register of Toxic	•	ed from manufacturer's SDS. Unless otherwise
VDW.ROTATE and RECIPROC® blue & TRANS-		h	
1,4-POLYISOPRENE (GUTTA- PERCHA)	No significant acute toxicological data identified in literat	ture search.	
,	No significant acute toxicological data identified in literat The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.		e on contact skin redness, swelling, the production
PERCHA) VDW.ROTATE and RECIPROC® blue & ZINC	The material may cause skin irritation after prolonged or		e on contact skin redness, swelling, the production
PERCHA) VDW.ROTATE and RECIPROC® blue & ZINC OXIDE	The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.	r repeated exposure and may produce	
PERCHA) VDW.ROTATE and RECIPROC® blue & ZINC OXIDE Acute Toxicity	The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.	r repeated exposure and may produce Carcinogenicity	×
PERCHA) VDW.ROTATE and RECIPROC® blue & ZINC OXIDE Acute Toxicity Skin Irritation/Corrosion	The material may cause skin irritation after prolonged or vesicles, scaling and thickening of the skin.	r repeated exposure and may produce Carcinogenicity Reproductivity	×

Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

VDW.ROTATE and RECIPROC® blue	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	BCF	1344h	Fish	19-110	7
	EC50	72h	Algae or other aquatic plants	0.022mg/L	2
	EC50	48h	Crustacea	0.105mg/L	2
zinc oxide	EC50	96h	Algae or other aquatic plants	0.042mg/L	2
	ErC50	72h	Algae or other aquatic plants	0.62mg/l	2
	LC50	96h	Fish	0.102mg/L	2
	EC10(ECx)	168h	Algae or other aquatic plants	0.003mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
trans-1,4-polyisoprene (Gutta- percha)	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox databa		HA Registered Substances - Ecotoxicological Information Aquatic Hazard Assessment Data 6. NITE (Japan) - Bio		

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

рести	
Ingredient	Bioaccumulation
zinc oxide	LOW (BCF = 217)

12.4. Mobility in soil

Ingredient	Mobility	
	No Data available for all ingredients	
		П

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12.5. Results of PBT and vPvB assessment

	P	В	Т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	X	×	×	
PBT Criteria fulfilled?				
vPvB			No	

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal	 DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. 	
Waste treatment options	Not Available	
Sewage disposal options	Not Available	

SECTION 14 Transport information

Labels Required



Marine Pollutant



Land transport (ADR-RID)

/				
14.1. UN number or ID number	3077	3077		
14.2. UN proper shipping name	ENVIRONMENTALLY I	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide)		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	9 Not Appl	icable	
14.4. Packing group				
14.5. Environmental hazard	Environmentally hazard	Environmentally hazardous		
	Hazard identification	(Kemler)	90	
	Classification code		M7	
14.6. Special precautions for user	Hazard Label		9	
	Special provisions		274 335 375 601	
	Limited quantity		5 kg	
	Tunnel Restriction Co	ode	Not Applicable	

Air transport (ICAO-IATA / DGR)

077		
Environmentally hazardous substance, solid, n.o.s. (contains zinc oxide)		
ICAO/IATA Class	9	
ICAO / IATA Subsidiary Hazard	Not Applicable	
ERG Code	9L	
r	ivironmentally hazardous substand ICAO/IATA Class ICAO / IATA Subsidiary Hazard	

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14.4. Packing group	III		
14.5. Environmental hazard	Environmentally hazardous		
14.6. Special precautions for user	Special provisions	A97 A158 A179 A197 A215	
	Cargo Only Packing Instructions	956	
	Cargo Only Maximum Qty / Pack	400 kg	
	Passenger and Cargo Packing Instructions	956	
	Passenger and Cargo Maximum Qty / Pack	400 kg	
	Passenger and Cargo Limited Quantity Packing Instructions	Y956	
	Passenger and Cargo Limited Maximum Qty / Pack	30 kg G	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3077			
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide)			
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Ha	IMDG Class 9 IMDG Subsidiary Hazard Not Applicable		
14.4. Packing group	III			
14.5 Environmental hazard	Marine Pollutant			
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	F-A , S-F 274 335 966 967 969 5 kg		

Inland waterways transport (ADN)

mianu waterways transport (ADM)				
14.1. UN number	3077	3077		
14.2. UN proper shipping name	ENVIRONMENTALLY H	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains zinc oxide)		
14.3. Transport hazard class(es)	9 Not Applicable	9 Not Applicable		
14.4. Packing group				
14.5. Environmental hazard	Environmentally hazardous			
14.6. Special precautions for user	Classification code Special provisions Limited quantity Equipment required Fire cones number	M7 274; 335; 375; 601 5 kg PP, A***		

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
zinc oxide	Not Available
trans-1,4-polyisoprene (Gutta- percha)	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
zinc oxide	Not Available
trans-1,4-polyisoprene (Gutta- percha)	Not Available

SECTION 15 Regulatory information

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

zinc oxide is found on the following regulatory lists

EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances

Europe EC Inventory

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European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

Germany Classification of Substances Hazardous to Waters (WGK)

Germany Recommended Exposure Limits - MAK Values

Germany Recommended Exposure Limits - MAK Values - Carcinogens

Germany Recommended Exposure Limits - MAK Values - Pregnancy Risk Group Classifications & Germ Cell Mutagens

Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

trans-1,4-polyisoprene (Gutta-percha) is found on the following regulatory lists

Europe EC Inventory

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Germany Recommended Exposure Limits - MAK Values

Germany Recommended Exposure Limits - MAK Values - Carcinogens

Germany Recommended Exposure Limits - MAK Values - Pregnancy Risk Group Classifications & Germ Cell Mutagens

Germany TRGS 900 - Limit Values for the Workplace Atmosphere (German)

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category

E1

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.3. Classification of Substances and Mixtures into Water Hazard Classes

Preparation is WGK 2

Name	WGK	Score	Source
ZINC OXIDE	2		From Regulation
TRANS-1,4-POLYISOPRENE (GUTTA-PERCHA)	non-hazardous to waters	0	Calculated

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (trans-1,4-polyisoprene (Gutta-percha))
Canada - DSL	No (trans-1,4-polyisoprene (Gutta-percha))
Canada - NDSL	No (trans-1,4-polyisoprene (Gutta-percha))
China - IECSC	No (trans-1,4-polyisoprene (Gutta-percha))
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (trans-1,4-polyisoprene (Gutta-percha))
Korea - KECI	No (trans-1,4-polyisoprene (Gutta-percha))
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	No (trans-1,4-polyisoprene (Gutta-percha))
Taiwan - TCSI	Yes
Mexico - INSQ	No (trans-1,4-polyisoprene (Gutta-percha))
Vietnam - NCI	No (trans-1,4-polyisoprene (Gutta-percha))
Russia - FBEPH	No (trans-1,4-polyisoprene (Gutta-percha))
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	26/07/2023
Initial Date	26/07/2023

Full text Risk and Hazard codes

H400 Very toxi

Very toxic to aquatic life.

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or

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other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- ► IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- ► STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit,
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- ▶ NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ► TLV: Threshold Limit Value
- ► LOD: Limit Of Detection
- ► OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ AIIC: Australian Inventory of Industrial Chemicals
- ► DSL: Domestic Substances List
- ► NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ► ELINCS: European List of Notified Chemical Substances
- ► NLP: No-Longer Polymers
- ► ENCS: Existing and New Chemical Substances Inventory
- ► KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ► TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Sensitisation (Skin) Category 1, H317	Expert judgement
Hazardous to the Aquatic Environment Acute Hazard Category 1, H400	Calculation method
Hazardous to the Aquatic Environment Long-Term Hazard Category 1, H410	Calculation method

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Document Detail

Type: 1000-TF_2_SDS

Document No.: 1000-TF_2_SDS_000207[0]

Title: Absorbent Paper Point Paper_SDS

Comment:

Status: CURRENT

Effective Date: 12-May-2021

Approval

Owner Role	Sign-off By	Sign-off Date	
1000- R&D Project Manager	Selma Mefti	07-May-2021 8:18 am	GMT
ENDODONTICS R&D Project			
Manager			
1000- Product Compliance Manager	Liana Amanda	13-Apr-2021 3:51 pm	GMT
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Compliance Manager			
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Assurance Lead			
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Lead			
1000- Clinical Research SBU	Kitty Formentin	07-May-2021 8:23 am	GMT
Manager ENDODONTICS Clinical			
Research SBU Manager			
1000- Regulatory Affairs SBU	Robert Meissner	12-May-2021 6:11 am	GMT
Manager ENDODONTICS			
Regulatory Affairs SBU Manager			

Manning 210

All products supplied by Xamax Industries Inc. are considered articles by OSHA Hazard Communication Standard 1910.1200 and as such no SDS is required. This information is voluntary and not subject to regulatory requirements.

1. Identification of the Substance/Mixture and of the Company/Undertaking

Product Identifier: Manning 210

Description: Absorbent Paper Point Paper

Intended Use: High strength paper used in industrial or hygenic applications.

Supplier: Xamax Industries, Inc. Phone: 001-203-888-7200 / 001-888-926-2988

> 63 Silvermine Road Email: qualitydept@xamax.com

Seymour, CT 06483

2. Hazards Identification

Hazard Statements:

• H335: May cause respiratory irritation.

If this material is used in a manner that could generate dust particles, it should be treated as a nuisance particulate.

Precautionary Statements:

Possible Routes of Exposure:

Only if dust is created from processing. Eye Contact: Only if dust is created from processing. **Inhalation:** Ingestion: Unlikely, but generally considered non-toxic.

Skin: Not an irritant, no adverse effect.

NTP: No Carcinogen: No IARC No **OSHA Regulated** Nο

Acute Health Effects None Known **Chronic Health Effects** None known None known Symptoms of Exposure:

Health: 0, Flammability: 1, Reactivity: 0 **HMIS Rating:**

3. Composition/Information on Ingredients

CAS# No. Component Weight % 9004-34-6 > 92 Cellulose Pulp 9005-53-2 < 8 2. Lignin

*NA: Not Applicable NE: Not Established TD: Total Dust RD: Respirable Dust RF: Respirable Fraction

4. First Aid Measures

Flush thoroughly with running water. If irritation persists, seek medical attention. **Eye Contact**

Wash skin with soap and water if irritation occurs. Skin Contact

Inhalation If symptoms develop from exposure to dust, remove to fresh air.

No adverse effect expected. If large amounts are ingested, consult a physician. Ingestion

5. Firefighting Measures

Fire Extinguishing Media

Water, Foam, Carbon Dioxide, Dry Chemical Special hazards arising from the substance or mixture:

Excessive dust from cellulose can mix with air and become flammable and explosive if exposed to an ignition source.

Hazardous Products of Combustion Carbon dioxide and carbon monoxide **Advice for Firefighters:** Use self contained breathing apparatus.

6. Accidental Release Measures

Steps to be taken in case material is released or spilled:

None required

7. Handling and Storage

Storage: Keep product away from excessive heat and flame. Store in a dry environment



8. Exposure Controls / Personal Protection

Not required **Eye Protection: Hand Protection:** Not required Respiratory Protection: Not required

Local exhaust to remove dust if it occurs during processing to keep levels below the OSHA TD limit **Ventilation:**

Wash thoroughly after handling product prior to eating, drinking, or smoking. **Industrial Hygiene:**

9. Physical and Chemical Properties

White paper NA: Not Applicable ND: No Data Appearance:

Odor: None 462°F **Auto Ignition Temp:** 0.45 g/cc Specific Gravity:

10. Stability and Reactivity

Stable Stability: Will not occur **Hazardous Polymerization:** Avoid open flame **Incompatible Materials:**

Hazardous Products of Decomposition Carbon dioxide, carbon monoxide, low molecular weight hydrocarbons (incomplete combustion).

11. Toxicological Information

No components of this product are known to be hazardous according to the criteria specified in 29CFR1910.1200

12. Ecological Information

• This product has no known eco-toxicological effects.

13. Disposal Considerations

No special disposal procedures required. Dispose in accordance with (non-RCRA regulated) Federal, State, and Local regulations.

14. Transport Information

• DOT - Not regulated

15. Regulatory Information

- Non-dangerous substance, combustibles specified by fire prevention ordinances for rag and wastepaper
- REACH: Regulation (EC) No 1907/2006 (as amended by Regulation (EU) No. 453/2010 with respect to SDSs)
- This product does not contain substances that require a warning pursuant to California Proposition 65

16. Other Information

Revision 04 Revision Date 1011019 **Supersedes** Rev 03 **Issue Date: 120513**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This information is not valid if the product has been combined with other materials.