



NITRITE NO.2 TABLETS Wilhelmsen Ships Service AS

Catalogue Number: 555631 Version No: 5.5

Safety Data Sheet (Conforms to Regulation (EU) No 2015/830)

Issue Date: 02/10/2020 Print Date: 10/12/2020 L.REACH.NOR.EN

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

1.1. Product Identifier

Product name	NITRITE NO.2 TABLETS
Chemical Name	Not Applicable
Synonyms	Product Part Number: 555631 (250 x 0,1 gram); ALSO USED IN SPECTRAPAK 309 (739466)
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains potassium permanganate)
Chemical formula	Not Applicable
Other means of identification	555631, 555631, 739466

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	Not Applicable

1.3. Details of the supplier of the safety data sheet

Registered company name	Wilhelmsen Ships Service AS	Outback (M)SDS portal: http://jr.chemwatch.net /outb/account/autologin?login=wilhelmsen	Wilhelmsen Ships Service AS* Central Warehouse
Address	Strandveien 20 Lysaker 1366 Norway	Use our Outback portal to obtain our (M)SDSs in other languages and/or format For questions relating to our SDSs please use Email: WSS.GLOBAL.SDSINFO@wilhelmsen.comNorway	Willem Barentszstraat 50 Rotterdam Netherlands
Telephone	+47 67 58 40 00	Not Available	+31 10 4877 777
Fax	Not Available	Not Available	Not Available
Website	http://www.wilhelmsen.com/	http://www.wilhelmsen.com	http://www.wilhelmsen.com
Email	wss.norway.cs@wilhelmsen.com	wss.global.sdsinfo@wilhelmsen.com	wss.rotterdam@wilhelmsen.com

1.4. Emergency telephone number

Association / Organisation	Giftinformasjonssentralen - 24 timer	American Chemistry Council 24hrs - Chemtrec	Dutch nat. poison centre
Emergency telephone numbers	+47 22591300	+1 703 527 3887	+ 31 30 274 88 88
Other emergency telephone numbers	Not Available	+1 800 424 9300	Not Available

SECTION 2 Hazards identification

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Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Classified as Dangerous Goods for transport purposes.

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

H411 - Chronic Aquatic Hazard Category 2, H315 - Skin Corrosion/Irritation Category 2, H319 - Eye Irritation Category 2

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

Hazard statement(s)

H411	Toxic to aquatic life with long lasting effects.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

Supplementary statement(s)

Not Applicable

CLP classification (additional)

Not Applicable

Precautionary statement(s) Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

P321	Specific treatment (see advice on this label).
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

Inhalation and/or skin contact may produce serious health damage*.

Cumulative effects may result following exposure*.

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	0/ [aiab4]	Nome	Classification asserting to regulation (EC) No 4272/2009 [CLD] and amondments
3.Index No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments
4.REACH No			

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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
1.7722-64-7 2.231-760-3 3.025-002-00-9 4.01-2119480139-34- XXXX 01-2120767626-42-XXXX	<2.5	potassium permanganate *	Oxidizing Solid Category 2, Chronic Aquatic Hazard Category 1, Acute Aquatic Hazard Category 1, Acute Toxicity (Oral) Category 4; H272, H410, H400, H302 [2]

Legend:

1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: Wash out immediately with fresh 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. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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

Both dermal and oral toxicity of manganese salts is low because of limited solubility of manganese. No known permanent pulmonary sequelae develop after acute manganese exposure. Treatment is supportive.

[Ellenhorn and Barceloux: Medical Toxicology]

In clinical trials with miners exposed to manganese-containing dusts, L-dopa relieved extrapyramidal symptoms of both hypo kinetic and dystonic patients. For short periods of time symptoms could also be controlled with scopolamine and amphetamine. BAL and calcium EDTA prove ineffective.

[Gosselin et al: Clinical Toxicology of Commercial Products.]

SECTION 5 Firefighting measures

5.1. Extinguishing media

- ► Water spray or fog.
- Dry chemical powder.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

Advice for firefighters

5.3. Advice for firefighters		
Fire Fighting	 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. 	
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. Decomposition may produce toxic fumes of: 	

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, metal oxides

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills

Environmental hazard - contain spillage.

- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Wear impervious gloves and safety glasses.

Major Spills

Environmental hazard - contain spillage.

Moderate hazard.

- ► CAUTION: Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.

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

Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.Use in a well-ventilated area.
- Fire and explosion protection

See section 5

Other information

- Store in original containers.
- Keep containers securely sealed.
- ▶ Store in a cool, dry area protected from environmental extremes.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Derivative of electropositive metal.

• WARNING: Avoid or control reaction with peroxides. All *transition meta*l peroxides should be considered as potentially explosive. For example transition metal complexes of alkyl hydroperoxides may decompose explosively.

- Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride.
- These trifluorides are hypergolic oxidisers. They ignite on contact (without external source of heat or ignition) with recognised fuels - contact with these materials, following an ambient or slightly elevated temperature, is often violent and may produce ignition.













- X Must not be stored together
- May be stored together with specific preventions
- May be stored together

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

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Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
potassium permanganate	Inhalation 0.2 mg/m³ (Systemic, Chronic) Inhalation 0.039 mg/m³ (Systemic, Chronic) * Oral 0.011 mg/kg bw/day (Systemic, Chronic) *	0.06 μg/L (Water (Fresh)) 0.6 μg/L (Water (Marine)) 1.64 mg/L (STP)

^{*} Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)	potassium permanganate	Manganese and inorganic manganese compounds (as manganese)	0,2; 0,05 mg/m3	Not Available	Not Available	Not Available
Norway regulations on action rvalues and limit values physical and chemical factors in the work environment and infection risk groups for biological factors	potassium permanganate	Mangan og uorganiske manganforb. (beregnet som Mn) - Respirabel fraksjon	0.05 mg/m3	Not Available	Not Available	E 9
Norway regulations on action rvalues and limif values physical and chemical factors in the work environment and infection risk groups for biological factors	potassium permanganate	Mangan og uorganiske manganforb. (beregnet som Mn) - Inhalerbar fraksjon	0.2 mg/m3	Not Available	Not Available	E 9

Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
potassium permanganate	Potassium permanganate	8.6 mg/m3	14 mg/m3	150 mg/m3

Ingredient	Original IDLH	Revised IDLH
potassium permanganate	500 mg/m3	Not Available

MATERIAL DATA

Ceiling values were recommended for manganese and compounds in earlier publications. As manganese is a chronic toxin a TWA is considered more appropriate. Because workers exposed to fume exhibited manganism at air-borne concentrations below those that affect workers exposed to dust a lower value has been proposed to provide an extra margin of safety.

8.2. Exposure controls

8.2.1. Appropriate engineering 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.

8.2.2. Personal protection











Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection

See Hand protection below

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

Hands/feet protection

observed when making a final choice. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids,

where abrasive particles are not present.

polychloroprene.

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	▶ nitrile rubber.
Body protection	See Other protection below
Other protection	Overalls. P.V.C apron. Barrier cream.

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:2000 & 149:001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

^{* -} Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- 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.
- ▶ Use approved positive flow mask if significant quantities of dust becomes airborne.
- ► Try to avoid creating dust conditions.

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	Violet tablets; partly soluble in water.		
Physical state	Solid	Relative density (Water = 1)	1.991
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	1413	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available

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Solubility in water	Partly miscible	pH as a solution (1%)	9
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7
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
10.4. Conditions to avoid	See section 7
10.5. Incompatible materials	See section 7
10.6. Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Manganese fume is toxic and produces nervous system effects characterised by tiredness. Acute poisoning is rare although acute inflammation of the lungs may occur. A chemical pneumonia may also result from frequent exposure.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Poisonings rarely occur after oral administration of manganese salts as they are generally poorly absorbed from the gut (generally less than 4%) and seems to be dependent, in part, on levels of dietary iron and may increase following the consumption of alcohol. A side-effect of oral manganese administration is an increase in losses of calcium in the faeces and a subsequent lowering of calcium blood levels. Absorbed manganese tends to be slowly excreted in the bile.
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds 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.
Еуе	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.
Chronic	Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Strong evidence exists that the substance may cause irreversible but non-lethal mutagenic effects following a single exposure. Exposure to the material may cause concerns for human fertility, generally on the basis that results in animal studies provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which are not a secondary non-specific consequence of othe toxic effects. Repeated or prolonged exposure may also damage the liver and may cause a decrease in the heart rate. Systemic poisoning may result from inhalation or chronic ingestion of manganese containing substances. Progressive and permanent disability can occur from chronic manganese poisoning if it is not treated, but it is not fatal.

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NITRITE NO.2 TABLETS	TOXICITY	IRRITATION	
NITKITE NO.2 IABLETS	Not Available	Not Available	
	TOXICITY	IRRITATION	
	=100 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]	
	=135 mg/kg ^[2]	Skin: adverse effect observed (corrosive) ^[1]	
	=2400 mg/kg ^[2]		
	=400 mg/kg ^[2]		
	=600 mg/kg ^[2]		
potassium permanganate	100 mg/kg ^[2]		
	143 mg/kg ^[2]		
	2.4 mg/kg ^[2]		
	Oral (mouse) LD50: =2157 mg/kg ^[2]		
	Oral (mouse) LD50: =750 mg/kg ^[2]		
	Oral (rat) LD50: =1090 mg/kg ^[2]		
	Oral (rat) LD50: =750 mg/kg ^[2]		
Legend:	Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
NITRITE NO.2 TABLETS	Exposure to the material may result in a possible risk of irreversible effects. The material may produce mutagenic effects in man. This concern is raised, generally, on the basis of appropriate studies using mammalian somatic cells in vivo.		
POTASSIUM PERMANGANATE	Dyspnae, nausea, effects on spermatogenesis and the male fertility index recorded.		

Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	~	Reproductivity	×
Serious Eye Damage/Irritation	~	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X − Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

SECTION 12 Ecological information

12.1. Toxicity

NITRITE NO.2 TABLETS	Endpoint	Test Duration (hr)		Species		Value	Source
	Not Available	Not Available	Not Available Not Available			Not Available	
	Endpoint	Test Duration (hr)	Spec	cies	Value		Source
potassium permanganate	LC50	96	Fish		-0.286-0.43	38mg/L	4
	EC50	48	Crus	tacea	-0.056-0.1r	mg/L	4
	EC50	72	Alga	e or other aquatic plants	-0.000776-	0.00108mg/L	4
	NOEC	336	Fish		0.000196-r	ng/L	4
Legend:	3. EPIWIN St	m 1. IUCLID Toxicity Data 2. Europe i uite V3.12 (QSAR) - Aquatic Toxicity I uatic Hazard Assessment Data 6. NIT	Data (Es	stimated) 4. US EPA, Ecotox	database - Aqua	atic Toxicity D	ata 5.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

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On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

Metal-containing inorganic substances generally have negligible vapour pressure and are not expected to partition to air. Once released to surface waters and moist soils their fate depends on solubility and dissociation in water. Environmental processes (such as oxidation and the presence of acids or bases) may transform insoluble metals to more soluble ionic forms.

For manganese and its compounds:

Environmental fate:

It has been established that while lower organisms (e.g., plankton, aquatic plants, and some fish) can significantly bioconcentrate manganese, higher organisms (including humans) tend to maintain manganese homeostasis. This indicates that the potential for biomagnification of manganese from lower trophic levels to higher ones is low

There were two mechanisms involved in explaining the retention of manganese and other metals in the environment by soil.

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
potassium permanganate	HIGH	HIGH

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
potassium permanganate	LOW (BCF = 81)

12.4. Mobility in soil

Ingredient	Mobility
potassium permanganate	LOW (KOC = 48.64)

12.5.Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Applicable	Not Applicable	Not Applicable
PBT Criteria fulfilled?	Not Applicable	Not Applicable	Not Applicable

12.6. Other adverse effects

No data available

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required



Marine Pollutant



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Land transport (ADR-RID)

and transport (7 (Brt 111B)					
14.1. UN number	3077	3077			
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains potassium permanganate)				
14.3. Transport hazard	Class	9			
class(es)	Subrisk I	Not Applicable			
14.4. Packing group	III	III			
14.5. Environmental 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 qua	ntity	5 kg		
	Tunnel Rest	triction Code	3 (-)		
			` '		

Air transport (ICAO-IATA / DGR)

14.1. UN number	3077				
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. * (contains potassium permanganate)				
	ICAO/IATA Class	9			
14.3. Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable			
ciass(es)	ERG Code	9L			
4.4. Packing group	III	III			
14.5. Environmental hazard	Environmentally hazardous				
	Special provisions	A97 A158 A179 A197 A215			
	Cargo Only Packing Ir	956			
	Cargo Only Maximum	400 kg			
14.6. Special precautions for user	Passenger and Cargo	Packing Instructions	956		
ioi usei	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	3077			
14.2. UN proper shipping name	ENVIRONMENTALL	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains potassium permanganate)			
14.3. Transport hazard	IMDG Class 9				
class(es)	IMDG Subrisk N	IMDG Subrisk Not Applicable			
14.4. Packing group	III				
14.5. Environmental hazard	Marine Pollutant	Marine Pollutant			
	EMS Number	F-A , S-F			
14.6. Special precautions for user	Special provisions	274 335 966 967 969			
	Limited Quantities	5 kg			

Inland waterways transport (ADN)

14.1. UN number	3077

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14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains potassium permanganate)			
14.3. Transport hazard class(es)	9 Not Applicable	9 Not Applicable		
14.4. Packing group	III	II		
14.5. Environmental hazard	Environmentally hazardous			
	Classification code	M7		
	Special provisions	274; 335; 375; 601		
14.6. Special precautions for user	Limited quantity	5 kg		
	Equipment required	PP, A***		
	Fire cones number	0		

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

Not Applicable

SECTION 15 Regulatory information

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

potassium permanganate is found on the following regulatory lists

EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs)

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

Europe EC Inventory

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

sNorway regulations on action values and limit values for physical and chemical factors in the work environment and infection risk groups for biological fact

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) 2015/830; Regulation (EC) No 1272/2008 as updated through ATPs.

15.2. Chemical safety assessment

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

National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (potassium permanganate)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - ARIPS	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)		

SECTION 16 Other information

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NITRITE NO.2 TABLETS

Issue Date: 02/10/2020 Print Date: 10/12/2020

Revision Date	02/10/2020
Initial Date	15/06/2016

CONTACT POINT

- For quotations contact your local Customer Services - http://wssdirectory.wilhelmsen.com/#/customerservices - - Responsible for safety data sheet Wilhelmsen Ships Service AS - Prepared by: Product HSE Manager, - Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com - Telephone: Tel.: +31 10 4877775

Full text Risk and Hazard codes

H272	May intensify fire; oxidiser.	
H302	Harmful if swallowed.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

SDS Version Summary

Version	Issue Date	Sections Updated
4.5.1.1.1	02/10/2020	Classification, Ingredients, Physical Properties, Synonyms

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 other settings. Risks may be determined by reference to Exposures Scenarios.

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

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