SAFETY DATA SHEET



CALCIUM 4 COMPONENT A

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

1.1 Product identifier	
Product name	: CALCIUM 4 COMPONENT A
Product type	: Powder.
Other means of identification	: Not available.
Product part number	: R7446/R7447/R7448
Kit name	: FLIPR CALCIUM 4 ASSAY KIT FLIPR CALCIUM 4 ASSAY KIT, EXPLORER FLIPR CALCIUM 4 ASSAY EXPRESS KIT
Kit part number	: R8141/R8142/R8143/R8172
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: For R&D use only.
Area of application	: Professional applications.
Uses advised against	
None identified.	

1.3 Details of the supplier of the safety data sheet

Molecular Devices (Austria)	SmbH
Urstein Süd 17	
5412 Puch / Hallein	
AUSTRIA	
e-mail address of person responsible for this SDS	: msdsinquiry@moldev.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number

: CHEMTREC (24 hours): 1-800-424-9300 (USA/Canada), +1 703-527-3887 (Outside USA/Canada)

CALCIUM 4 COMPONENT A

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity	 P8.7 percent of the mixture consists of component(s) of unknown acute oral toxicity 99.5 percent of the mixture consists of component(s) of unknown acute dermal toxicity 99.5 percent of the mixture consists of component(s) of unknown acute inhalation toxicity
Ingredients of unknown ecotoxicity	: Contains 99.5% of components with unknown hazards to the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word	: Warning
Hazard statements	 F315 - Causes skin irritation. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 ₽280 - Wear protective gloves. P273 - Avoid release to the environment. P264 - Wash thoroughly after handling.
Response	 ₱362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water.
Storage	: Not applicable.
Disposal	 F501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles <u>Special packaging requirem</u>	: Not applicable.

SECTION 2: Hazards identification

Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	\overline{M} ay form combustible dust concentrations in air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures :	Mixture				
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре	
Sodium 5-(acetylamino)-3-[(dimethylphenyl)azo] -4-hydroxynaphthalene- 2,7-disulphonate	EC: 235-329-0 CAS: 12167-45-2	≥10 - ≤25	Skin Irrit. 2, H315	[1]	
dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	<0.25	Eye Irrit. 2, H319 Aquatic Chronic 1, H410 (M=10)	[1] [2]	
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

CALCIUM 4 COMPONENT A

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any imm	ediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decompositio The exposed person may need to be			
Specific treatments	: No specific treatment.			
Date of issue/Date of revision	: 05/05/2021 Date of previous issue	:05/03/2018	Version : 3	4/16

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Use dry chemical powder.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	rom	the substance or mixture
Hazards from the substance or mixture	:	May form explosible dust-air mixture if dispersed. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	Evacuate su entering. Do No flares, sn adequate ve	rrounding a o not touch noking or fl entilation. V	areas. Keep un or walk through ames in hazard	necessary and spilled materia area. Avoid br e respirator whe	without suitable unprotected per I. Shut off all ig reathing dust. P en ventilation is	rso Init Prov	nnel fro ion sou vide	om urces.
For emergency responders	:	information i	n Section 8		d unsuitable ma	age, take note o aterials. See als			
6.2 Environmental precautions	:	and sewers. pollution (se	Inform the wers, wate	e relevant autho	rities if the prod r). Water pollut	act with soil, wa uct has caused ing material. M	en	vironm	nental
Date of issue/Date of revision		: 05/05/2021	Date of pre	vious issue	:05/03/2018	Versio	n	:3	5/16

SECTION 6: Accidental release measures

6.3 Methods and materials for containment and cleaning up

Small spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Eating, drinking and smoking should be prohibited in areas where this material is Advice on general handled, stored and processed. Workers should wash hands and face before eating, occupational hygiene drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Date of issue/Date of revision : 05/05/2021 Date of previous issue	:05/03/2018	Version : 3 6/16
--	-------------	------------------

CALCIUM 4 COMPONENT A

SECTION 7: Handling and storage

Recommendations

: Not available.

Industrial sector specific

solutions

: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
dîmethyl sulfoxide	 DFG MAC-values list (Germany, 8/2020). Absorbed through skin. PEAK: 320 mg/m³, 4 times per shift, 15 minutes. TWA: 160 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours. TRGS 900 OEL (Germany, 10/2020). Absorbed through skin. PEAK: 320 mg/m³ 15 minutes. PEAK: 100 ppm 15 minutes. TWA: 160 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
procedures atmosphere or b of the ventilation protective equip the following: E the assessment limit values and atmospheres - C exposure to che (Workplace atm for the measured	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness in or other control measures and/or the necessity to use respiratory ment. Reference should be made to monitoring standards, such as uropean Standard EN 689 (Workplace atmospheres - Guidance for of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment of mical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedures ment of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
dímethyl sulfoxide	DNEL	Long term Inhalation	47 mg/m ³	General population	Local
	DNEL	Long term Oral	60 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	100 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	120 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	200 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	265 mg/m ³	Workers	Local
	DNEL	Long term	484 mg/m ³	Workers	Systemic
e of issue/Date of revision :	05/05/2021	Date of previous issue	: 05/03/20	018	/ersion : 3 7/1

2015/830 - Germany						
CALCIUM 4 COMPONENT A						
SECTION 8: Exposu	re con	trols/p	ersonal prot	ection		
			Inhalation			
PNECs						
No PNECs available.						
8.2 Exposure controls						
Appropriate engineering controls	vapo cont reco vapo	or or mist, trols to kee ommended	use process enclo p worker exposur l or statutory limits concentrations bel	osures, local ex e to airborne co . The engineer	ontaminants below ring controls also r	r other engineering any
Individual protection measu	<u>ires</u>					
Hygiene measures	eatii App Was	ng, smokir ropriate te sh contami	ng and using the la chniques should b	avatory and at the used to remo fore reusing. E	he end of the work ove potentially cont nsure that eyewas	taminated clothing.
Eye/face protection	asse gase unle goge	essment in es or dusts ss the ass	dicates this is nec s. If contact is pos essment indicates	essary to avoid sible, the follow a higher degre	andard should be u l exposure to liquid ving protection sho ee of protection: c st concentrations to	l splashes, mists, ould be worn,
Skin protection						
Hand protection	be v this cheo shou diffe	vorn at all is necessa ck during u uld be note rent for dil	times when handli ary. Considering t use that the gloves ed that the time to fferent glove manu	ng chemical pr he parameters are still retaini breakthrough f ıfacturers. In th	oducts if a risk ass specified by the gl ng their protective or any glove mater ne case of mixtures	ial may be
Body protection	bein	g perform			ould be selected ba ould be approved b	
Other skin protection	sele	cted base		g performed an	otection measures d the risks involve oduct.	
Respiratory protection	app resp	ropriate sta	andard or certification program to	tion. Respirato	e, select a respirato rs must be used a ^r fitting, training, ar	ccording to a
Environmental exposure controls	they case	comply wes, fume s	ith the requiremer	nts of environments of environments of environments of environments of the second second second second second s	ental protection leg odifications to the	checked to ensure jislation. In some process equipment

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Solid. [Crystalline powder.]
Color	: Brownish-red. [Dark]
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling	: Not available.
range	
Flash point	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not applicable.
Vapor pressure	: Not available.
Vapor density	: Not applicable.
Relative density	: Not available.
Solubility(ies)	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
Viscosity	: Not applicable.
Explosive properties	: Not available.
Oxidizing properties	: Not available.
9.2 Other information	

Physical/chemical properties : No additional information.

comments

SECTION 10: Stability and reactivity

10.1 Reactivity	1	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

SECTION 10: Stability and reactivity

10.4 Conditions to avoid	:	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dímethyl sulfoxide	LD50 Dermal	Rat	roooo mg/ng	-
	LD50 Oral	Rat	14500 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
dimethyl sulfoxide	14500	40000	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
dímethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	100 mg	-
Conclusion/Summary	: Not available.				
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Date of issue/Date of revision	: 05/05/2021 Date of previou	i <mark>s issue</mark> : 0:	5/03/2018	Versi	ion : 3 10/16

Date of issue/Date of revision

:05/05/2021

SECTION 11: Toxico	logical information
Reproductive toxicity Conclusion/Summary <u>Teratogenicity</u> Conclusion/Summary	Not available.Not available.
Specific target organ toxici Not available.	
Specific target organ toxici Not available.	t <u>y (repeated exposure)</u>
Aspiration hazard Not available.	
Information on the likely routes of exposure	: Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects	<u>S</u>
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	

Date of previous issue

:05/03/2018

Version : 3

11/16

SECTION 11: Toxicological information Potential immediate : Not available. effects **Potential delayed effects** : Not available. Potential chronic health effects General : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Carcinogenicity : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Mutagenicity Reproductive toxicity** : No known significant effects or critical hazards. Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
dimethyl sulfoxide	Acute EC50 18299 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Acute LC50 37.437 mg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 3323 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna -	21 days
		Juvenile (Fledgling, Hatchling,	,
		Weanling)	
	Chronic NOEC 6 ppb Fresh water	Fish - Poecilia reticulata - Adult	16 weeks
Conclusion/Summary	: Not available.	1	1

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-
Conclusion/Summary	: Not available.	-		

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
dimethyl sulfoxide	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
dimethyl sulfoxide	-1.35	3.16	low

Date of issue/Date of revision	: 05/05/2021

SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
Date of issue/Date of revis	sion : 05/05/2021	Date of previous issue	: 05/03/2018	Version : 3 13/1

2015/830 - Germany CALCIUM 4 COMPONEN					
SECTION 14:	Transpo	rt information			
14.5 Environmental hazards	No.	No.		No.	No.
14.6 Special preca user	utions for	-	Ensure that perso		sed containers that are oduct know what to do ir
14.7 Transport in t according to IMO instruments	bulk	: Not available.			
SECTION 15:	Regulate	ory information			
Annex XIV None of the com <u>Substances of v</u> None of the com <u>Annex XVII - Rest</u> <u>substances, mixt</u> <u>Substances requi</u> <u>labelling</u> <u>Other EU regulation</u> <u>Europe inventory</u> <u>Ozone depleting s</u> Not listed.	of substanc	es subject to authori listed. ncern listed. the manufacture, plac ticles Not applicable. All components are li (1005/2009/EU)	cing on the mark		<u>dangerous</u>
Prior Informed Co Not listed. Seveso Directive This product is not National regulation	controlled u	(649/2012/EU) nder the Seveso Direc	tive.		
Product/ingredie		List name	Name on list	Classificatio	n Notes
dimethyl sulfoxide		DFG MAC-values list	Dimethyl sulfox	de RE2	
Storage class (TF Hazardous incide This product is not Hazard class for	ent ordinanc	13 <u>e</u> nder the Germany Haz 1	zardous Incident C	rdinance.	

SECTION 15: Regulatory information

Technical instruction on air quality control	: TA-Luft Number 5.2.1: 99.8% TA-Luft Number 5.2.5: 0.1%
ΑΟΧ	: The product does not contain organically bound halogens which could lead to an AOX value in waste water.
International regulations	
Chemical Weapon Convent	ion List Schedules I, II & III Chemicals
Not listed.	

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.
15.3 Registration status	:	Mixture. Information concerning the substance : Contact local supplier or distributor.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	:	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
Key literature references and sources for data	:	Regulation (EC) No. 1272/2008 [CLP]; European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), concluded in Geneva on 30 September 1957 plus amendments (Uniform text: Journal of Laws 27/2009 pos. 162 plus amendments); European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN); Occupational exposure limits; International regulations

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Date of issue/Date of revision	: 05/05/2021	Date of previous issue	: 05/03/2018	Version : 3	15/16
Date of 1330c/Date of revision	.00/00/2021	Dute of previous issue	.00/00/2010		10/10

CALCIUM 4 COMPONENT A

SECTION 16: Other information						
Classification			Justification			
Skin Irrit. 2, H315 Aquatic Chronic 3, H412			Calculation method Calculation method			
Full text of abbreviated H statements						
₩315 H319 H410 H412		Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.				
Full text of classifications [CLP/GHS]						
Aquatic Chronic 1 Aquatic Chronic 3 Eye Irrit. 2 Skin Irrit. 2		AQUATIC HAZARD SERIOUS EYE DAM	(LONG-TERM) - Category 1 (LONG-TERM) - Category 3 IAGE/ EYE IRRITATION - Category 2 IRRITATION - Category 2			
Training advice Date of issue/ Date of revision	: Ensure operative : 05/05/2021	es are trained to minir	nise exposures. Training staff on good practice.			
Date of previous issue Version	: 05/03/2018 : 3					
Notice to reader						

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.