

CHEMBALL (HANGZHOU) CHEMICALS CO., LTD

According to UN GHS (the 8<sup>th</sup> revised edition)

#### Material Safety Data Sheet (MSDS)

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Product Name:	SODIUM NAPHTHALENE SULPHONATE
Model No.:	
Written by: Linda) (Linda) ISSUED BY: TUY	Inspected by: JOSC (Jose) Approved by AIGTER (Greaty) (Jose) (China) Service of Testing Co., Ltd.

#### Oct. 2021 PRINT

Item No.:	NM36WJB
MSDS No.:	EMS.211.028.002.WJB
Initial Date:	Oct. 28, 2021
Revision Date:	Oct. 28, 2021



# MSDS No.:: EMS.21.028.002.WJB Initial Date: Oct.28,2021 Version:: 1.0 Product Name: SODIUM NAPHTHALENE SULPHONATE Revision Date: Oct.28,2021 Item No.: NM36WJB

# Section 1 Product and Company Identification

#### Product identification

Product Name:	SODIUM NAPHTHALENE SULPHONATE
FIUUULI Name.	SUDIVINAENTINALENE SULFIUNATE
Model No.:	1
HS code:	38244010
CAS No.:	36290-04-7
EC No.:	609-228-0
Molecular formula:	2(CnHsSOsNa)) · (n-1) CH2 (n-2) (CHsSOsNa)

Multi-purpose dispersant, suitable for concrete admixtures, agricultural products, synthetic rubber, resin emulsifiers. Widely sued in pre-cast& ready-mixed concrete, armored concrete and pre-stressed reinforced concrete in key construction projects such as dam and port construction, road building&town planning projects and dwelling erections etc. Suitable for preparation of early-strength, high-strength, high-antifiltration and seld-sealing&pumpable concrete. Used for and wide for seld-cured, vapor-cured concrete and its formulations. At early stage of application, extremely prominent effects are shown. As the result, the modulus and site utilization can be drastically, the procedure of vapor cure is omitted in peak-heat summer days. Statistically 40-60 metric tons of coal will be preserved when a metric ton of the material is consumed. Compatible with Portland cement,normal Portland Cement,Portland slag cement,fly-ash cement and Portland pozzolanic cement etc.

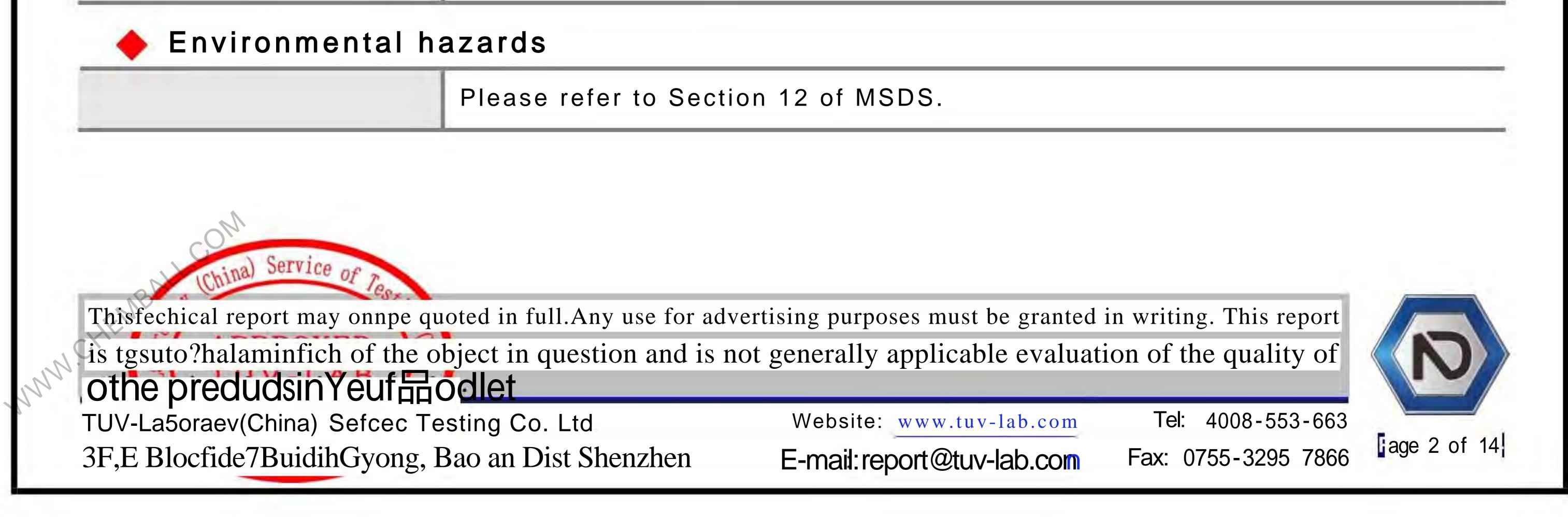
dentified uses:

Uses advised against: No special note

#### Details of the applicant, supplier

Com	npany name:	CHEMBALL (HANGZHOU) CHEMICALS CO. LTD
	Address:	GAOJIAO ROAD, YUHANG DISTRICT, HANGZHOU, ZHEJIANG,
	Audress.	CHINA,311122.
ENBAL	Post code:	311122
N.C.	Telephone:	<b>+86-</b> 19818279437
	Fax:	
	Fax:	
(China)	Service of Tess	

	Material Safe	ty Data Sheet	
MSDS No.:: EMS.21.028.002. Product Name: SODIUM NAP		nitial Date: 0ct.28,2021 Revision Date: 0ct.28,2021	Version: 1.0 <b>Item No.: NM36WJB</b>
E-mail:	shine@chemball.com		
Emergency telephor	number		
Emergency telephone:	<b>+86-5</b> 71 <b>-</b> 8627 3270		
	d Description		• 1 1• 4•
	ements of the product acco	rding to GHS (the 8" rev	vised edition)
GHS Hazard class			
	Non-hazardous substance	or mixture.	
GHS label elements			
Pictogram(s) :	None		
Signal word:	None		
Hazard statements			
	Not applicable.		
Other Hazards			
	None.		
Hazard description			
Dhuaiaal and ahar	nical hazards		
Finysical and cher		a a mala u ati a la and a via la ai	on characteristics
rnysical and cher	Non-flammable,no special	compustion and explosit	JII CHAIACLEHSUCS.
Health hazards	Non-flammable,no special	Compustion and explosit	JII CHAIACLEIISLICS.
Health hazards	Non-flammable,no special May cause respiratory disc		Sin characteristics.
Health hazards Inhalation:		comfort.	
<ul> <li>Health hazards</li> <li>Inhalation:</li> <li>ängestion:</li> </ul>	May cause respiratory disc	comfort. ing.	





	E SULPHONATE	≥70.5	36290-04-7
SODIUM SUL	FATE	≤20.0	7757-82-6
MOISTUR	E	≤9.0	7732-18-5
CHLORID	E	≤0.5	16887-00-6
1	dient: Sodium Naphtha -1)CH <sub>2</sub> • (n-2)(C <sub>10</sub> H <sub>5</sub> SC	lene Sulphonate Molecu D₃Na)	lar Formula:
Section 4 First A	id Measures		
Description of first			
General advice:		fety data sheet to the door to	ctor in attendance. consult a physician if necessary.
Remove contaminat         Skin contact:       Wash off with mild s			vsician immediately.
Eyes contact:	If skin irritation occurs or persists, consult a physician immediately. Check for and remove any contact lenses, occasionally lifting the upp lower eyelids. Immediately flush eyes with running water, disappear up chemical residues so far. Provide a readily-accessible eyewash facility and quick-drench safety sh Do not rub eyes with hands. If skin irritation occurs or persists, consult a physician immediately.		
Inhalation:	warm and at rest. If breathing is irregu personnel.	lar, provide artificial re	an open airway. Keep person spiration or oxygen by trained persist or are severe.
	Get medical attention if adverse health effects persist or are severe.         Ingestion:       Wash out mouth with water.         Ingestion:       If material has been swallowed and the exposed person is conscious small quantities of water to drink.		

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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.

# Most important acute and delayed symptoms/effects The most important known symptoms and effects are described in section 2 and/or in section 11. Immediate/special treatment Continue with first aid measures. Treat symptomatically and supportively. Symptoms may be delayed. 2 **Firefighting Measures** Section 5 Extinguishing agent Use dry sand, dry chemical or CO<sub>2</sub> foam extinguishing. Suitable extinguishing a second s

	agents:	Water spray can be used to cool fire exposed containers/materials.	
	agento.	Use extinguishing media most appropriate for the surrounding fire.	
Unsuitable extinguishing agents:		Do not uses a solid water stream as it may scatter or spread fire.	
Sp	becial hazards aris	sing from the substance or mixture	
1	If this product is involved in a fire, the following can be released: Sodium oxides, carbon ox chlorine oxides, etc.		
Fi	re precautions and	d measures	
1	Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguish in the upwind.		
2	As far as possible w	vill be transferred to empty containers from the scene.	

Keep the fire water spray containers cooling, until the end of fire. 3

E	loolated accident scene, prohibit access					
5	Isolated accident scene, prohibit access.					
6	Receiving and processing of fire water, to prevent environmental pollution.					
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Section 6	Accidental Release Meas	ures	

No action shall be taken involving any personal risk or without suitable training.

2	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
3	Do not touch or walk through spilt material, avoid slipping.
4	Avoid breathing dusts.
5	Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
6	Put on appropriate personal protective equipment (see section 8).
Eı	nvironmental precautions
	Drevent further lealer as an iller if a faite de ca
1	Prevent further leakage or spillage if safe to do so.

#### Methods and materials for containment and cleaning up

1

Pick up and arrange disposal without creating dust. Collect mechanically. Keep in suitable, closed antainara fan dianar

	container	s for disposal.	
2	Disposal: regulation	: Contaminated material must be disposed of in accordance with all State and/or Lo	
Sec	ction 7	Handling and Storage	
Pr	recautions	s for safe handling	
1	Avoid for	nation of dust and aerosols.	
2	Put on ap	propriate personal protective equipment (see section 8).	
3	Eating, dr	inking and smoking should be prohibited in areas where this material is handled, stored and d.	
	N. Contraction of the second s		

4 Avoid breathing dust. 5 Provide suitable exhaust equipment. Operate in a well-ventilated place. 6 Normal measures for preventive fire protection. Keep away from heat/open flames/hot surfaces. Observe good housekeeping procedures and hygiene practices. 7 Service of This rechnical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. TUV-Laboratory (China) Service of Testing Co., Ltd. Website: www.tuv-lab.com Tel: 4008-553-663 Page 5 of 14 3F, E Block, Muaide Building, Tuyong, Bao'an Dist, Shenzhen Fax: 0755-3295 7866 E-mail: report@tuv-lab.com

	Material S	afety Data Sheet		
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8 9	Provide for appropriate exhaust ventilation and dust collection at machinery. Wash thoroughly after handling.			
10	Persons with a history of skin sensitization p this product is used.	roblems should not be emplo	yed in any process in which	
11	this product is used. Handling carefully to prevent damage the packaging and container.			

#### **Precautions for storage**

2

Store in accordance with local regulations. Stored in a dry, cool and well-ventilated area. Keep
container tightly closed.

Avoid direct sunlight. Keep away from open flames and high temperatures, away from incompatible materials (see section 10).

3 Moisture-proof and water-proof.

Keep out of reach of children and pets. 4

#### **Exposure Controls/Personal Protection** Section 8

**Control parameters** 

#### **Occupational Exposure limit values**

There is no known exposure limits prescribed by the state.

## **Engineering controls**

- Ensure adequate ventilation, especially in confined areas.
- Ensure that eyewash stations and safety showers are close to the workstation location. 2

#### **Personal protection**

General requirements:

1010

Respiratory protection:

Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards NUCOLI /LION

Eye protection:	Wear safety glasses wh	nen there is a potential for	eye contact.			
Skin and body protection: Wear suitable protective clothing and boots.						
This technical report may only be is the result of a single examination other products in regular production TUV-Laboratory (China) Service of T	n of the object in question and n.					

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Wear protective gloves.

Hands protection:

Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### **Physical and Chemical Properties** Section 9 Information on basic physical and chemical properties Appearance and Light brown powder, solid character: Odor: Mild Melting point/freezing No data/Not applicable point (°C): Initial boiling point and No data/Not applicable boiling range (°C): Flash point (°C): No data/Not applicable Evaporation rate: No data/Not applicable

Steam pressure (20°C):	No data/Not applicable
Relative density (water=1):	No data/Not applicable
Partition coefficient: n-octanol/water:	No data/Not applicable
Decomposition temperature (°C):	No data/Not applicable
Auto ignition temperature (°C):	No data/Not applicable
pH value:	7.95
Explosion limit [% (v/v) ]:	Non-explosive
Relative vapor density(air=1):	
Solubility:	Soluble in water
Flammability (solid, gas):	Non-flammable
Oxidizing properties:	The substance does not belong to oxidizing substances
s the result <u>of a single Exa</u> mination other products in regular production	
UV-Laboratory (China) Service of F, E Block, Huaide/Building, Tuyon	Testing Co., Ltd.Website: www.tuv-lab.comTel: 4008-553-663g, Bao'an Dist, ShenzhenE-mail: report@tuv-lab.comFax: 0755-3295 7866

	WJB	Initial Date: Oct. 28	, 2021 Ver	sion: 1.0			
Product Name: SODIUM NAP	HTHALENE SULPHONAT	E Revision Date: Oct.	. 28, 2021 Iter	m No.: NM36WJB			
Water reduction rate (%):	18~28						
Section 10 Stabili	ty and Reactivi	ty					
Stability and Reactiv	vity						
Stability:	The product is ch	emically stable.					
Reactivity:	Stable under reco	mmended storage and	d handling conditi	ons.			
Incompatible materials:	Strong oxidizing a	igents, strong acids an	nd strong bases.				
Conditions to avoid:	In contrast to the rand open fire.	nature of the material, o	direct sunlight, wa	ter, high temperature			
Hazardous decomposition products:		onditions of storage of be produced.	and use, hazar	dous decomposition			
SODIUM SULFATE	7757-82-6	Mouse: 5989mg/kg	No data	No data			
Skin corrosion/irritation:		According to the existing data, the product is not classified.					
Skin conosion/initiation.	Long term and repeated contact may cause skin irritation. Irritating effect possible.						
Eye corrosion/irritation:			use skin irritation				
	Irritating effect po						
Eye corrosion/irritation: Respiratory	Irritating effect po These products a	ssible.	human respirato	ry sensitization.			
Eye corrosion/irritation: Respiratory sensitization:	Irritating effect po These products a These products a	ssible. re not known to cause re not known to cause	human respirato skin sensitizatior	n. ry sensitization.			
Eye corrosion/irritation: Respiratory sensitization: Skin sensitization:	Irritating effect po These products a These products a According to the e No classification	ssible. re not known to cause re not known to cause	human respirato skin sensitization uct is not classifie	ry sensitization.			
Eye corrosion/irritation: Respiratory sensitization: Skin sensitization: Germ cell mutagenicity:	Irritating effect po These products a These products a According to the e No classification from the EPA, IAF	ssible. re not known to cause re not known to cause existing data, the produ data on carcinogenic p	human respirato skin sensitization uct is not classifie oroperties of this GIH.	ry sensitization. n. ed. material is available			
Eye corrosion/irritation: Respiratory sensitization: Skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ	Irritating effect po These products a These products a According to the e No classification from the EPA, IAF According to the e	ssible. re not known to cause re not known to cause existing data, the produ data on carcinogenic p RC, NTP, OSHA or AC	human respirato skin sensitization uct is not classifie GIH. uct is not classifie	n. n. ed. material is available			
Eye corrosion/irritation: Respiratory sensitization: Skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity:	Irritating effect po These products a According to the e No classification from the EPA, IAE According to the e	ssible. re not known to cause re not known to cause existing data, the produ data on carcinogenic p RC, NTP, OSHA or AC existing data, the produ	human respirato skin sensitization uct is not classifie oroperties of this GIH. uct is not classifie uct is not classifie	ry sensitization. n. ed. material is available ed.			

exposure: Aspiration hazard: Additional reproductive		ing data, the product is not cl	
toxicity - repeated exposure:Aspiration hazard:Additional reproductive		ing data, the product is not cl	
Additional reproductive	According to the exist		assified.
	•	ing data, the product is not cl	assified.
	According to the exist	ing data, the product is not cl	assified.
Section 12 Ecologic	cal Information		
Aquatic toxicity			
Aquatic toxicity Acute/Chronic aquatic	This product contains	no hazardous or toxic substa	ances and presents a
		ne environment based on its	
Persistence and degr	adability		
		ally with natural biodegradab	e.
Bioaccumulative pote Bioaccumulation:		oumulation of this material in	a aquatia argoniama ia lau
	The potential for bloat	ccumulation of this material in	r aqualic organisms is low
Mobility in soil			
Mobility:	Will penetrate into the	soil, will be dissolved in the	soil material.
Other adverse effects			
	do not allow materi	ected to have a detrimental e al to be released to the er	
Section 13 Disposa	I Considerations		
Waste disposal			
Residual waste:	regulation. The generation of was Recommended landfi	d refer to the relevant nationa ste should be avoided or mini Il or transfer to a suitable ed disposal company if recyc	imized wherever possible. container and arrange fo
		ste should be avoided or mini	
Service			
	of the object in question an	ertising purposes must be granted in nd is not generally applicable evaluat	

	waterial o	afety Data Sheet				
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packaging:	considered when recy	uld be recycled. Incineration cling is not feasible.				
	Dispose of container and unused contents in accordance with national and					
Disposal considerations:	local relevant regulations laws.					

# Section 14 Transport Information

### Transport rules

According to IATA DGR 62 <sup>nd</sup> Edition for transportation, IMO International
Maritime Dangerous Goods Code (Amendment 39-18), European Agreement
Concerning the International Carriage of Dangerous Goods by Road. The
products are not subject to IATA DGR, IMDG and ADR/RID.

### Label(s) required

Label(s): None

#### Road transport (UN-ADR)

UN number: Not regulated

UN proper shipping name:	Not regulated
Transport hazard class(es)-Main:	Not regulated
Transport hazard class(es)-Sub risk:	None
Packaging group:	Not regulated
Special provisions:	None
Hazard code:	None
Air transport (ICAO- UN number:	-IATA/DGR) Not regulated
UN proper shipping name:	
Transport hazard class(es)-Main:	Not regulated
Transport hazard	None
	Testing Co., Ltd. Website: www.tuv-lab.com Tel: 4008-553-663
3F, E Block, Huaide Building Tuyon	

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class(es)-Sub	risk:							
Packaging gr	oup:	Not regulated	ł					
Special provision transporta	s for ation	None						
ERG c	ode:	None						
Sea transport (I	MDG	-CODE)						
UN num	nber:	Not regulated	ł					
UN proper ship na	ping ame:	Not regulated	ł					
Transport ha class(es)-N	zard Aain:	Not regulated	ł					
Transport ha class(es)-Sub		None						
Packaging gr	oup:	Not regulated	ł					
Special provision transporta	s for tion:	None						
Marine pollut (Yes/	ants /No):	No						
EmS	No.:	None						
Regulatory info	ormat	ion:		J. CA and i	nternatio	nal regula	ations.	
xelerence to th	2 6 1 5 1 5	EINECS	DSL	IECSC	NZIOC	PICCS	KECI	AICS
	<b>ISCA</b>						T	-
	V	*	$\checkmark$	$\checkmark$	~	$\checkmark$	$\checkmark$	~
CAS No.	√ √	*	~	~	~	~	~	~

7732-18-5	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	~
16887-00-6	*	×	×	~	~	×	×	×
	TSCA:	United States	s Toxic Sul	bstances Co	ontrol Act In	ventory		
	FINEOO			Evicting Co	mmaraial C	homical Cu	hotopoo	
COM.	EINECS:	European Inv	entory of	Existing Co	mmercial C	nemical Su	Instances	
is the result of a s other products in r TUV-Laboratory (Cl	ervice of Tes ort may only be indle Examinati egular productionina) Service of	quoted in full. Any on of the object in on.	use for adver	rtising purpose I is not general Website: wv	s must be grar	ted in writing. valuation of th Tel: 4	This report and quality of 008-553-663	Page 11

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DSL:	Canadian Domestic Substances List
IECSC:	China Inventory of Existing Chemical Substances
PICCS:	Philippines Inventory of Chemicals and Chemical Substances
NZIoC:	New Zealand Inventory of Chemicals
KECI:	Existing and Evaluated Chemical Substances
AICS:	List of existing chemical substances in Australia
★Note:	" √ " Indicates that the substance included in the regulations "×" That no data or included in the regulations
Section 16 Other	Information
Abbreviations or ph	rases
ACGIH:	American Conference of Governmental Industrial Hygienists
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service
CLP:	Classification, labeling and packaging
EC:	Council of Europe
ECHA:	European Chemicals Agency
EINECS:	European Inventory of Existing commercial Chemical Substances
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
RID:	Regulation for rail International transportation of Dangerous goods
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Dangerous Goods Code
IC <sub>50</sub> :	Inhibitory Concern Triton 50%
LC <sub>50</sub> :	Lethal Concentration 50%
LD <sub>50</sub> :	Median Lethal Dose 50%
CON Corrigo	

Material Safety Da	ata Sheet
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**Product Name: SODIUM NAPHTHALENE SULPHONATE** 

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MAPROL:	International Convention for the Prevention of Pollution from Ships
REACH:	REGULATION concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average
MAC:	Maximum Allowable Concentration
OSHA:	Occupational Safety and Health Administration
NIOSH:	National Institute for Occupational Safety and Health
TLV:	Threshold Limit Value
TLV-TWA:	Threshold Limit Value-Time Weighted Average
TLV- STEL:	Threshold Limit Value-Short term Exposure Limit
PC-TWA:	Permissible Concentration-Time Weighted Average
PC-STEL:	Permissible Concentration-Short Term Exposure Limit
PEL:	Permissible Exposure Limit
OELs:	Occupational Exposure Limits

1	IARC	
2	OECD: The Global Portal to Information on Chemical Substances	
3	U.S. Department of Transportation: ERG	
4	Germany GESTIS-database on hazard substance	
5	CAMEO Chemicals	
6	NLM: ChemIDplus	
7	EPA: Integrated Risk Information System	
8	IPCS: The International Chemical Safety Cards (ICSC)	



1

The above information is believed to be correct but we can not guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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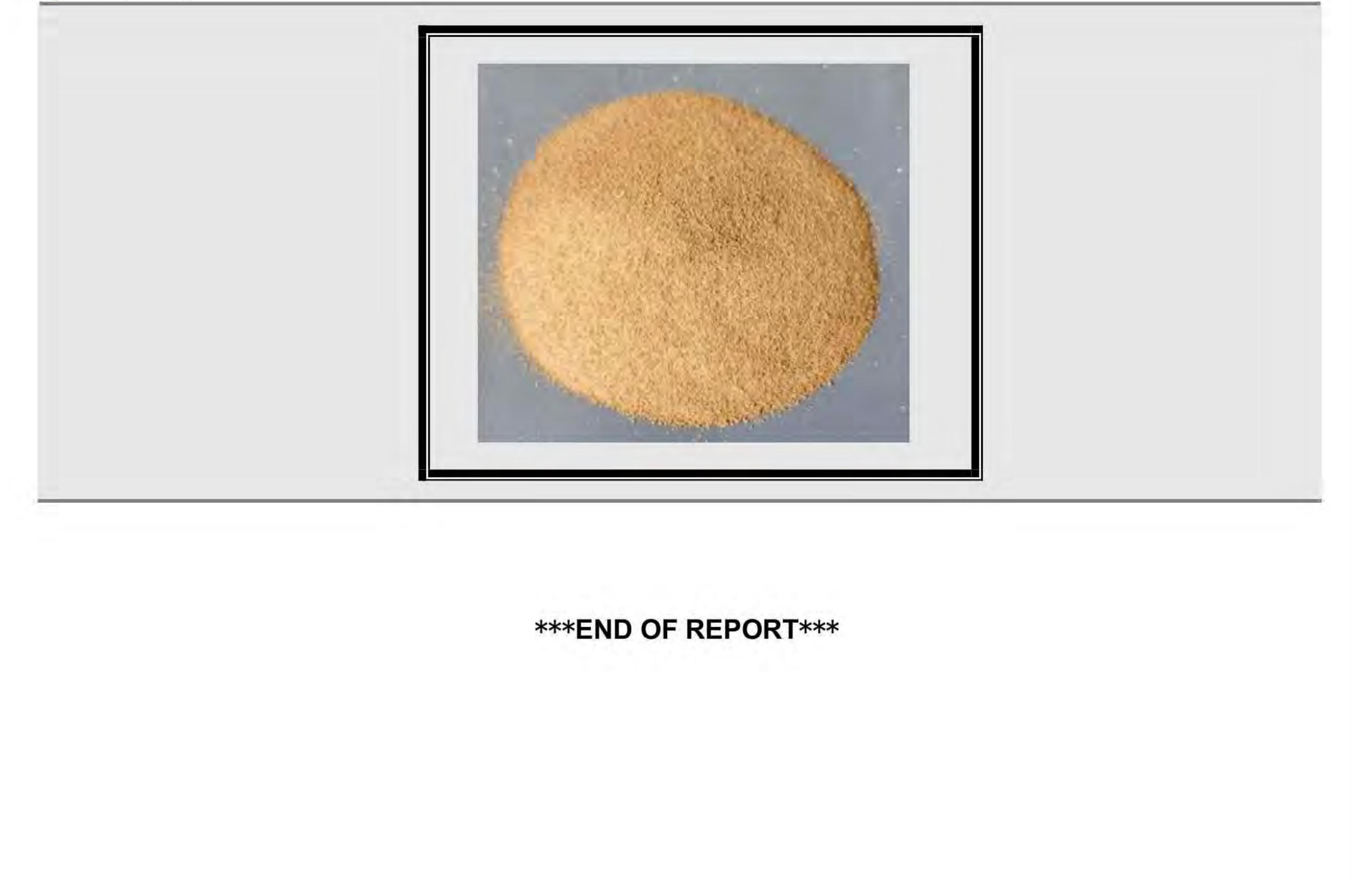
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#### Product photo(s)

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