<b>SECTION 1: Identification</b>	of the substance/mixture a	nd of the compan	y/undertakin	g
1.1. Product identifier			Ĩ	
Product form	: Substance			
Trade name	: Molecular Siev	e-type 13X		
EC-No.	: 930-915-9			
CAS-No.	: 1318-02-1			
REACH Reg No	: 01-211942903	1-49-****		
Formula	: Unspecified			
Synonyms	: Aluminosilicate	eolite (insoluble inorgan		e, cuboidal, crystalline, synthetic, oidal, crystalline, synthetic, non
1.2. Relevant identified uses	s of the substance or mixture ar	nd uses advised aga	ainst	
1.2.1. Relevant identified uses				
Main use category		dustrial gas、purification and carbon dioxide and		naterials in separation plant (while bons)
<b>1.2.2. Uses advised against</b> Restrictions on use	: No information	available		
1.3. Details of the supplier of				
Only Representative:	REACH24H CONSULTING GR			
Address:	Paramount Court, Corrig Road,	Sandyford, Dublin 18, I	reland	
E-mail:	Info@reach24h.com			
	Changhai Llangua Malagulan Ci			
Manufacturer:	Shanghai Hengye Molecular Sie			
Address:	No.12,Guangda Road,Fengxian	District, Shanghai 2014	414, P.R.C.	
E-mail: Tolophono:	jianwei@hyms.com.cn +86-21-57568588-8001			
Telephone: Fax:				
	+86-21-57568970			
1.4. Emergency telephone n				
Emergency number	: 8621-57568588			
SECTION 2: Hazards iden 2.1. Classification of the sul Classification according to Reg Not classified				
Adverse physics chemical hum	on bootth and any ironmental affect			
	an health and environmental effect bes not present any particular risk, pro		cordance with a	ood occupational hygiene and safety
practice.	bes not present any particular lisk, pre		cordance with g	
2.2. Label elements				
Labelling according to Regulat	ion (EC) No. 1272/2008 [CLP]			
No labelling applicable				
2.3. Other hazards				
	meet the PBT criteria of REACH regul	ation, annex XIII		
	meet the vPvB criteria of REACH regu			
	<sup>o</sup>			
SECTION 3: Composition 3.1. Substances	/information on ingredients			
Name	Product ider	tifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silicon Oxide (Synthetic)	(CAS-No.) 763	1-86-9	<65	Not classified
Sodium Oxide	(CAS-No.)1313	3-59-3	<40	Not classified
Aluminum Oxide	(CAS-No.)1344		<40	Not classified
	(CAS-No.)130			
Magnesium Oxide	(CAS-INO.)1305	7-40-4	<5	Not classified

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.	
First-aid measures after inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.</li> </ul>	
First-aid measures after skin contact	: Gently wash with plenty of soap and water. Take off contaminated clothing.	
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell. Rinse mouth.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects	: No information available.	
4.3. Indication of any immediate medical	attention and special treatment needed	
Treat symptomatically.		

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: No information available.
5.2. Special hazards arising from the substa	nce or mixture
No information available	
5.3. Advice for firefighters	
Precautionary measures fire	: Eliminate all ignition sources if safe to do so. Evacuate personnel to a safe area. Ensure adequate ventilation, especially in confined areas.
Firefighting instructions	: Keep upwind. Complete protective clothing.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6.1.1. For non-emergency personnel	
Protective equipment	: Wear personal protective equipment.
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for con-	tainment and cleaning up
Methods for cleaning up	: Sweep up or vacuum up the product. Avoid raising dust.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
. For further information refer to section 1	13.

SECTION 7. Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid dust formation. Ensure good ventilation of the work station. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of flammable vapour. Handle in accordance with good industrial hygiene and safety practice.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Keep away from food, drink and animal feeding stuffs.
7.2. Conditions for safe storage, including an	y incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Store in tightly closed containers. Store in a dry area.
7.3. Specific end use(s)	

No information available

SECTION 8: Exposure controls/personal protection 8.1. Control parameters	
Zeolites (1318-02-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2.5 - 3 mg/kg bodyweight/day

## Molecular Sieve-type 13X Safety Data Sheet according to Regulation (EU) 2015/830

Zeolites (1318-02-1) Long-term - local effects, inhalation 3 mg/m<sup>3</sup> **DNEL/DMEL (General population)** 1.25 - 1.5 mg/kg bodyweight/day Long-term - systemic effects,oral Long-term - systemic effects, dermal 1.25 - 1.5 mg/kg bodyweight/day Long-term - local effects, inhalation 0.0033 mg/m<sup>3</sup> **PNEC (Water)** PNEC aqua (freshwater) 3.2 mg/l 0.32 mg/l PNEC aqua (marine water) PNEC aqua (intermittent, marine water) > 1 mg/l **PNEC (Soil)** 600 mg/kg dwt PNEC soil **PNEC (STP)** PNEC sewage treatment plant 95 mg/l 8.2. Exposure controls

#### Appropriate engineering controls:

Do not breathe dust. Provide local exhaust or general room ventilation. Provide adequate ventilation to minimize dust concentrations.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Dust mask

## Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical pro	operties
9.1. Information on basic physical and chemical properties	
Physical state	: Solid
Colour	: Grey.
Odour	: odourless.
Odour threshold	: No data available
рН	: 9 - 11
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 1414 °C
Freezing point	: Not applicable
Boiling point	: 2900 °C
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Density	: 0.5-0.9g/cm <sup>3</sup>
Solubility	: insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

according to Regulation (LO) 2013/030		
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: Not applicable	
9.2. Other information		
No additional information available		

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Avoid creating or spreading dust. Incompatible materials. Moisture.
10.5. Incompatible materials
Strong acids. Strong bases.
10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

<b>SECTION 11: Toxicological information</b>	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.
Zeolites (1318-02-1)	
LD50 oral rat	> 5110 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 3.35 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: NOAEL ≥ 60 mg/kg bw/day (nominal), no effects.
Reproductive toxicity	: Not classified
Zeolites (1318-02-1)	
NOAEL (male)	>= 2
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Aspiration nazard	
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified.
Chronic aquatic toxicity	: Not classified
· ·	

Zeolites (1318-02-1)	
NOEC fish	680 mg/l Pimephales promelas
EC50 Daphnia	2808 mg/l (24h)-Daphnia magna
EC50 96h algae	18 mg/l Desmodesmus subspicatus
NOEC (chronic)	32 mg/l (21d)-Daphnia magna
NOEC chronic fish	> 86.7 mg/l (30d)-Pimephales promelas

12.2. Persistence and degradability		
Zeolites (1318-02-1)		
Persistence and degradability	No information available.	
12.3. Bioaccumulative potential		
Zeolites (1318-02-1)		
Bioaccumulative potential	0.59-0.95	
12.4. Mobility in soil		
Zeolites (1318-02-1)		
Ecology - soil	No information available.	
12.5. Results of PBT and vPvB assessment		
Component		
Zeolites (1318-02-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
12.6. Other adverse effects		

No additional information available

<b>SECTION 13: Disposal considerations</b>	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

## SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number					
N					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping	name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental haza	ırds				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.6. Special precautions	for user				
Overland transport					
Not regulated					
Transport by sea					
Not regulated					
Air transport					
Not regulated					
Inland waterway transport					
Not regulated					
Rail transport					
Not regulated					
14.7. Transport in bulk ac Not applicable	cording to Annex II of M	larpol and the IBC Code			

Not applicable

## SECTION 15: Regulatory information

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

## 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Zeolites is not on the REACH Candidate List Zeolites is not on the REACH Annex XIV List

Zeolites is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Zeolites is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

#### 15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Germany

#### : Water hazard class (WGK) nwg, Non-hazardous to water (ID No. 805) Reference to AwSV 12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV Netherlands SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen - Borstvoeding NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen - Vruchtbaarheid NIET-limitatieve lijst van voor de voortplanting : The substance is not listed giftige stoffen - Ontwikkeling

#### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

No chemical safety assessment has been carried out

# SECTION 16: Other information

Abbreviations and acronyms	s:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
Data sources	: ECHA reference. Loli.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.

### SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.