

## SAFETY DATA SHEET

Date Accessed: 25/08/2023

Date Revised: 21/01/2023

#### **SECTION 1. IDENTIFICATION**

**Product Name:** Lanthanum Strontium Cobalt Ferrite (LSCF)

CAS #:

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

#### **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral(Category 4), H302

Skin irritation(Category 2), H315

Eye irritation(Category 2A), H319

Specific target organ toxicity -single exposure(Category 3), Respiratory system, H335

GHS Label elements, including precautionary statements.

Pictogram

Signal word

Warning

Hamful if swallowed.  Hamful if swallowed.  H315  Causes skin irritation.H319  Causes serious eye irritation.  H335  May cause respiratory irritation.  Precautionary statement(s)  P261  Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray.  P264  Wash skin thoroughly after handling.  P270  Do not eat, drink or smoke when using this product.  P271  Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Hazard statement(s)	1	٠,,		' ;	1		1	1.		
Causes skin irritation.H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	H302										
Causes skin irritation.H319  Causes serious eye irritation.  H335  May cause respiratory irritation.  Precautionary statement(s)  P261  Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray.  P264  Wash skin thoroughly after handling.  P270  Do not eat, drink or smoke when using this product.  P271  Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Harmful if swallowed.	:		, ;	`;		, !	1			`: -
Causes skin irritation.H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.											
H335 May cause respiratory irritation. Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Causes skin irritation.H3	19	`; 	, , ,	' · .	`: 	; ' '	`'.	`; 	:	٠.,
May cause respiratory irritation.  Precautionary statement(s)  P261  Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray.  P264  Wash skin thoroughly after handling.  P270  Do not eat, drink or smoke when using this product.  P271  Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Causes serious eye irrita	ition.		: .	1		1	· ;	٠,	: .	· :
May cause respiratory irritation.  Precautionary statement(s)  P261  Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray.  P264  Wash skin thoroughly after handling.  P270  Do not eat, drink or smoke when using this product.  P271  Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	H335			;				,		:	
Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray.  P264  Wash skin thoroughly after handling.  P270  Do not eat, drink or smoke when using this product.  P271  Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				,	1		,	,			,
Wash skin thoroughly after handling.  P270  Do not eat, drink or smoke when using this product.  P271  Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P261										
Wash skin thoroughly after handling.  P270  Do not eat, drink or smoke when using this product.  P271  Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Avoid breathing dust/ fur	ne/ gas	/ mist/ Va	pors/ s <sub>l</sub>	oray.		1	`;	1	: .	·:
Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.											
Do not eat, drink or smoke when using this product.  P271  Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.											
Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P270	٠,,	1	: ' '	٠,	1			1		٠.,
Use only outdoors or in a well-ventilated area.  P280  Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Do not eat, drink or smol	ke whei	n using th	is produ	uct.						
Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P271	:			`: 	· · .		`;	'.,		·:
Wear protective gloves/ eye protection/ face protection.  P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Use only outdoors or in a	a well-v	entilated a	area.	1			`;		.:	·:
P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P280										
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	Wear protective gloves/	eye pro	tection/ fa	ice prot	ection.	1	! ' '	· .	`:	: ' '	٠.,
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P301 + P312		1					٠,			
IF ON SKIN: Wash with plenty of soap and water.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.											,
P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P302 + P352	`:			`;		, ;	1		.:	·:
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		-	-								
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P304 + P340	``.	`;	111	1	1	111	``.	`:	:	٠,
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	IF INHALED: Remove vi	ctim to	fresh air a	and kee	p at res	st in a pos	ition co	mfortal	ole for brea	athing.	· :
easy to do. Continue rinsing.	P305 + P351 + P338										
	IF IN EYES: Rinse caution										: ınd
		sing.	3	:	4	3		1.	1	:**	٠.,

Call a POISON CENTER or doctor/ physician if you feel unwell.

P321

Specific treatment (see supplemental first aid instructions on this label).

P330

Rinse mouth.

P332 + P313

If skin irritation occurs: Get medical advice/ attention.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

P362

Take off contaminated clothing and wash before reuse.

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS-none

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixtures

No components need to be disclosed according to the applicable regulations.

# SECTION 4. FIRST AID MEASURESDescription of first aid measures

General advice

Move out of dangerous area.

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or

in section 11

Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing Vapors, mist or gas.

Ensure

adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

#### **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures forpreventive fire protection.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** 

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level

protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

**Appearance** 

Form: solid				
Odor				
No data available	`;		, ;	':
Odor Threshold				
No data available	'''	`: 	111	٠٠,
pH 1.	1	٠,		' ;
No data available				
Melting point/freezing p	'			
No data available			111	
Initial boiling point and	boiling	range		,
No data availableFlash	point	11		·:
N/A ,	· ;		, ;	' ;
Evaporation rate				
No data available	4	1	;**	٠.,
Flammability (solid, gas	s)			
No data available	;	,		
Upper/lower flammabili	ty or ex	xplosive	limits	1
No data available				
Vapor pressure	٠,	1	111	٠,
No data available				
Vapor density		,		
No data available	`:		, ;	':
Relative density				
No data available	'''	`:	: ' '	'',
Water solubility	·;	٠.,	: .	
No data available				
Partition coefficient: n-c	ctanol	/water	, '	:
No data available				
Auto-ignition temperatu	ire	;		٠,
No data available	1	1		':

Decomposition temperature No data available Viscosity No data available Explosive properties No data available Oxidizing properties No data available Other safety information No data available **SECTION 10. STABILITY AND REACTIVITY** Reactivity No data available Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid No data available Incompatible materials No data available Hazardous decomposition products Other decomposition products-No data available In the event of fire: see section 5

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Acute toxicityNo data available Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available No data available Specific target organ toxicity -single exposure May cause respiratory irritation.

Specific target organ toxicity -repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

#### **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Product** 

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT (US)

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

Not dangerous goods

#### SECTION 15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm."

# **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral(Category 4), H302

Skin irritation(Category 2), H315

Eye irritation(Category 2A), H319 Specific target organ toxicity -single exposure(Category 3), Respiratory system, H335 GHS Label elements, including precautionary statements PictogramSignal word Warning Hazard statement(s) H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280

Wear protective gloves/ eye protection/ face protection.

P301 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312

Call a POISON CENTER or doctor/ physician if you feel unwell.

P321

Specific treatment (see supplemental first aid instructions on this label).

P330

Rinse mouth.

P332 + P313

If skin irritation occurs: Get medical advice/ attention.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

P362

Take off contaminated clothing and wash before reuse.

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

P405

Store locked up.

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS-none

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

No components need to be disclosed according to the applicable regulations.

#### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures

General advice

Move out of dangerous area.

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or

in section 11

Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing Vapors, mist or gas.

Ensure

adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**Environmental precautions** 

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sectionsFor disposal see section 13.

# **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** 

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level

protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties Appearance Form: Powder or solid Odor No data availableOdor Threshold No data available рΗ No data available Melting point/freezing point No data available Initial boiling point and boiling range No data available ... Flash point N/A Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapor pressure No data available Vapor density No data available Relative density No data available Water solubility

No data available

Partition coefficient: n-oc	tanol/w	/ater
No data available		
Auto-ignition temperature	Э	
No data available		
Decomposition temperat	ure	
No data available	`;	٠,
Viscosity		
No data available	,	
Explosive properties	,	,
No data available	,	,
Oxidizing properties	1	· · .
No data available	1	
Other safety information		
No data available	٠.	<b>'</b> :
<u> </u>	·:	
SECTION 10. S	ΓΑΒΙ	LITY
Reactivity		
Mark to the second second	٠.	

# AND REACTIVITY

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

No data available

Hazardous decomposition products

Other decomposition products-No data availableIn the event of fire: see section 5

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Reproductive toxicity

Acute toxicity No data available Inhalation: No data available Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No data available
Specific target organ toxicity -single exposure
May cause respiratory irritation.
Specific target organ toxicity -repeated exposure
No data available
Aspiration hazard
No data available
Additional Information
RTECS: Not available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity ...

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data availableMobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Product** 

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

#### SECTION 14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

Not dangerous goods

#### **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive 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.