

SAFETY DATA SHEET

1. Identification

Product identifier	Synpro® Zn Stearate Wettable	e
Other means of identification		
Product code	1036239, 1036048, 1306899, 1	036049
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Valtris Specialty Chemicals	
Address	1636 Wayside Road	
	Cleveland, OH 44112	
	United States	
Telephone	Customer Service	(216) 875-7200
Website	www.valtris.com	
E-mail	sdsquestions@valtris.com	
Contact person	Valtris Technical Center	
Emergency phone number	CHEMTREC: 1-800-424-9300	

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Combustible dust
Label elements	
Hazard symbol	None.
Signal word	Warning
Hazard statement	May form combustible dust concentrations in air.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard. Observe good industrial hygiene practices.
Response	Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
zinc stearate		557-05-1	90 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dusts may irritate the respiratory tract, skin and eyes. Coughing.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	May form combustible dust concentrations in air.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Use only non-sparking tools. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). The product is immiscible with

dust using a vacuum cleaner equipped with HEPA filter.

container. Following product recovery, flush area with water.

Avoid discharge into drains, water courses or onto the ground.

incompatible materials (see Section 10 of the SDS).

water and will spread on the water surface. Stop the flow of material, if this is without risk. Collect

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

hygiene practices.

Environmental precautions

7. Handling and storage Precautions for safe handling

Conditions for safe storage,

including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре	Value	Form
zinc stearate	PEL	5 mg/m3	Respirable fraction.
_		15 mg/m3	Total dust.
Components	Туре	Value	Form
zinc stearate (CAS 557-05-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limi			
Material	Туре	Value	
zinc stearate	TWA	10 mg/m3	
Components	Туре	Value	
zinc stearate (CAS 557-05-1)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Material	Туре	Value	Form
zinc stearate	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Components	Туре	Value	Form
zinc stearate (CAS 557-05-1)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total
logical limit values	No biological exposure limits noted for	or the ingredient(s).	
propriate engineering htrols	Explosion-proof general and local explosion-proof general and local explosion-proof general and local explosion of the second se	Ventilation rates should be mat local exhaust ventilation, or oth mended exposure limits. If ex to an acceptable level. If engi of dust particulates below the	tched to conditions. If her engineering controls to posure limits have not beer neering measures are not
ividual protection measures	s, such as personal protective equipm	ient	
Eye/face protection	Wear safety glasses with side shield	s (or goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant supplier.	gloves. Suitable gloves can be	e recommended by the glov
Other	Wear suitable protective clothing.		
Respiratory protection	If engineering controls do not mainta limits (where applicable) or to an acc been established), an approved resp if there is a risk of exposure to dust/fu	eptable level (in countries whe irator must be worn. Use a NIC	ere exposure limits have no OSH/MSHA approved respi
Thermal hazards	Wear appropriate thermal protective	-	
neral hygiene	When using, do not eat, drink or smo as washing after handling the materia		

Appearance		
Physical state	Solid.	
Form	Powder.	
Color	White	
Odor	Slight.	
Odor threshold	Not available.	
рН	Not available.	

Melting point/freezing point	248 - 269.6 °F (120 - 132 °C) / 266 °F (130 °C)
Initial boiling point and boiling	Not available.
range	
Flash point	536.0 °F (280.0 °C) Cleveland Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 hPa estimated
	< 0.0000001 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	788 °F (420 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.09 g/cm3 estimated 1.09 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular formula	C18-H36-O2.1/2Zn
Molecular weight	632.34 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	> 1

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks and open flame. Minimize dust generation and accumulation. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

Acute toxicity		
Product	Species	Test Results
zinc stearate		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
Components	Species	Test Results
zinc stearate (CAS 557-05-1)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
* Estimates for product mov	be based on additional component data not shown.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irrita	ation
Serious eye damage/eye	Direct contact with eyes may cause temporary irri	
irritation	Direct contact with eyes may cause temporary in	
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensiti	zation.
Germ cell mutagenicity	No data available to indicate product or any comp	
	mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1050)	
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductiv	e or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	
12. Ecological informatio	n	
Ecotoxicity	The product is not classified as environmentally h possibility that large or frequent spills can have a	
Persistence and degradability	No data is available on the degradability of this pr	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozor potential, endocrine disruption, global warming po	
13. Disposal consideratio	ns	
Disposal instructions	Collect and reclaim or dispose in sealed containe contents/container in accordance with local/regior	
Local disposal regulations	Dispose in accordance with all applicable regulati	ons.

Hazardous waste code	The waste code should be as disposal company.	ssigned in discussior	n between the user, the producer and the waste
Waste from residues / unused products			Empty containers or liners may retain some must be disposed of in a safe manner (see:
Contaminated packaging			due, follow label warnings even after container is approved waste handling site for recycling or
14. Transport information			
DOT			
Not regulated as dangerous g	oods.		
IATA			
Not regulated as dangerous g	oods.		
IMDG Not regulated as dangerous g	oods		
Transport in bulk according to	Not applicable.		
Annex II of MARPOL 73/78 and the IBC Code			
15. Regulatory information	ו		
US federal regulations	This product is a "Hazardous Standard, 29 CFR 1910.1200		ed by the OSHA Hazard Communication
· · · ·	Notification (40 CFR 707, Sub	opt. D)	
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)		
zinc stearate (CAS 557-0 SARA 304 Emergency released		Listed.	
Not regulated.			
Not listed.	d Substances (29 CFR 1910.1	1001-1050)	
Superfund Amendments and Re	authorization Act of 1986 (S/		
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No	(2117)	
SARA 302 Extremely hazard	Reactivity Hazard - No		
Not listed.			
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
ZINC COMPOUNDS		557-05-1	90 - 100
Other federal regulations			
Clean Air Act (CAA) Section			
Not regulated.	112 Hazardous Air Pollutant	s (HAPs) List	
	112 Hazardous Air Pollutant 112(r) Accidental Release Pr		58.130)
Not regulated.	112(r) Accidental Release Pr		58.130)
			58.130)
Not regulated. Clean Water Act (CWA) Section 112(r) (40 CFR	112(r) Accidental Release Pr Priority pollutant		58.130)
Not regulated. Clean Water Act (CWA) Section 112(r) (40 CFR 68.130) Safe Drinking Water Act	112(r) Accidental Release Pr Priority pollutant Toxic pollutant		58.130)
Not regulated. Clean Water Act (CWA) Section 112(r) (40 CFR 68.130) Safe Drinking Water Act (SDWA) US state regulations	112(r) Accidental Release Pr Priority pollutant Toxic pollutant Not regulated.	revention (40 CFR 6	98.130) Health and Safety Code Section 11100)

US. Massachusetts RTK - Substance List

zinc stearate (CAS 557-05-1)

US. New Jersey Worker and Community Right-to-Know Act zinc stearate (CAS 557-05-1)

US. Pennsylvania Worker and Community Right-to-Know Law

zinc stearate (CAS 557-05-1)

US. Rhode Island RTK

zinc stearate (CAS 557-05-1)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	08-26-2015
Version #	01
Further information	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.
Disclaimer	Valtris Specialty Chemicals cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.