SAFETY DATA SHEET



1. Identification

Product identifier	30-0-8, 40% XCU, 2% FE	
Other means of identification	None.	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufacturer		
Company name Address	GROWMARK FS LLC. 3150 Stoney Point Road East Berlin, PA 17316 United States	
Telephone	General Assistance	309-557-6000
Website	www.growmark.com	
E-mail Emergency phone number	SDS@growmark.com CHEMTREC	800-424-9300
		000 424-0000
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The mixture does not meet	the criteria for classification.
Precautionary statement		
Prevention	Observe good industrial hy	giene practices.
Response	Wash hands after handling	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and resid	ues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information		sts of component(s) of unknown acute oral toxicity. 98.3% of the nent(s) of unknown acute dermal toxicity. 98.3% of the mixture cor

mixture consists of component(s) of unknown acute dermal toxicity. 98.3% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
UREA		57-13-6	67.1
Dolomite		16389-88-1	18.3
POTASH		7447-40-7	12.9
Amorphous Silica (total Dust)		112926-00-8	< 0.2
Limestone (calcium Carbonate)		1317-65-3	< 0.2
Crystalline Sio2 (quartz)		14808-60-7	< 0.1
Other components below reportable	levels		1 - < 3

*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.	
_	Do not rub eves. Rinse with water. Get medical attention if irritation develops and persists	
Eye contact	Do not rub eyes. Rinse with water. Get medicar attention in initiation 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.	
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).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	

Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters

Use water spray to cool unopened containers.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.General fire hazardsNo unusual fire or explosion hazards noted.

6. Accidental release measures

Fire fighting

equipment/instructions

	Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. 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. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up		Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.
		Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.
		Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.
	Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
	7. Handling and storage	
	Precautions for safe handling	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.
	Conditions for safe storage	Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	Туре	Value	Form
Crystalline Sio2 (quartz) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
Limestone (calcium Carbonate) (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.

	Туре		Value	Form
Amorphous Silica (total Dust) (CAS 112926-00-8)	TWA		0.8 mg/m3	
			20 mppcf	
Crystalline Sio2 (quartz) (CAS 14808-60-7)	TWA		0.1 mg/m3	Respirable.
, , , , , , , , , , , , , , , , , , ,			2.4 mppcf	Respirable.
Dolomite (CAS 16389-88-1)	TWA		5 mg/m3	Respirable fraction.
			15 mg/m3	Total dust.
			50 mppcf	Total dust.
			15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit				
Components	Туре		Value	Form
Crystalline Sio2 (quartz) (CAS 14808-60-7)	TWA		0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Components	Chemical Hazards Type		Value	Form
Amorphous Silica (total Dust) (CAS 112926-00-8)	TWA		6 mg/m3	
Crystalline Sio2 (quartz) (CAS 14808-60-7)	TWA		0.05 mg/m3	Respirable dust.
Limestone (calcium Carbonate) (CAS 1317-65-3)	TWA		5 mg/m3	Respirable.
			10 mg/m3	Total
US. Workplace Environment		EL) Guides	Value	Form
Components	Туре	EL) Guides	Value	Form
•	Type TWA		10 mg/m3	Form Total particulate.
Components UREA (CAS 57-13-6) logical limit values	Type TWA No biological exposure	limits noted for the ingredi	10 mg/m3 ent(s).	Total particulate.
Components UREA (CAS 57-13-6)	Type TWA No biological exposure Good general ventilation should be matched to be or other engineering con- exposure limits have n engineering measures Occupational Exposure ground, cut, or used in		10 mg/m3 ent(s). per hour) should b e process enclosur levels below recor ain airborne levels in concentrations of iratory protection n generate dusts, use	Total particulate. Total particulate. Tes, local exhaust ventilation nmended exposure limits. to an acceptable level. If of dust particulates below to nust be worn. If material is a appropriate local exhaus
Components UREA (CAS 57-13-6) logical limit values propriate engineering trols	Type TWA No biological exposure Good general ventilation should be matched to or or other engineering co exposure limits have n engineering measures Occupational Exposure ground, cut, or used in ventilation to keep exp such as personal prote	limits noted for the ingredi on (typically 10 air changes conditions. If applicable, us ontrols to maintain airborne ot been established, mainta are not sufficient to mainta e Limit (OEL), suitable resp any operation which may g osures below the recomme ective equipment	10 mg/m3 ent(s). per hour) should b e process enclosur levels below recor ain airborne levels in concentrations of iratory protection n generate dusts, use inded exposure lim	Total particulate. Total particulate. Tes, local exhaust ventilation nmended exposure limits. to an acceptable level. If of dust particulates below to nust be worn. If material is a appropriate local exhaus
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Components UREA (CAS 57-13-6) logical limit values propriate engineering trols vidual protection measures, Eye/face protection Skin protection Hand protection	Type TWA No biological exposure Good general ventilatio should be matched to or other engineering co exposure limits have n engineering measures Occupational Exposure ground, cut, or used in ventilation to keep exp such as personal prote Wear safety glasses w Wear appropriate cher	limits noted for the ingredi on (typically 10 air changes conditions. If applicable, us ontrols to maintain airborne ot been established, mainta are not sufficient to mainta e Limit (OEL), suitable resp any operation which may g osures below the recomme ective equipment ith side shields (or goggles nical resistant gloves. nical resistant clothing. pproved respirator if there	10 mg/m3 ent(s). per hour) should b e process enclosur levels below recor ain airborne levels in concentrations of iratory protection n generate dusts, use inded exposure lim	Total particulate. Total particulate. Tes, local exhaust ventilation nmended exposure limits. to an acceptable level. If of dust particulates below to nust be worn. If material is a appropriate local exhaus its.
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Components UREA (CAS 57-13-6) logical limit values propriate engineering trols vidual protection measures, Eye/face protection Skin protection Hand protection Other Respiratory protection	Type TWA No biological exposure Good general ventilation should be matched to a or other engineering contexposure limits have n engineering measures Occupational Exposure ground, cut, or used in ventilation to keep exp such as personal prote Wear safety glasses w Wear appropriate cher Use a NIOSH/MSHA a exceeding the exposur Wear appropriate ther Mear appropriate ther	I limits noted for the ingredi on (typically 10 air changes conditions. If applicable, us ontrols to maintain airborne ot been established, mainta are not sufficient to mainta e Limit (OEL), suitable resp any operation which may g osures below the recomme ective equipment ith side shields (or goggles nical resistant gloves. nical resistant clothing. pproved respirator if there i e limits. nal protective clothing, whe personal hygiene measures king, and/or smoking. Rou	10 mg/m3 ent(s). per hour) should b e process enclosur levels below recor ain airborne levels in concentrations of iratory protection n generate dusts, use inded exposure lim). is a risk of exposur en necessary. s, such as washing	Total particulate. Total particulate. Tes, local exhaust ventilation nmended exposure limits. to an acceptable level. If of dust particulates below the nust be worn. If material is appropriate local exhaus its.
Components UREA (CAS 57-13-6) logical limit values propriate engineering trols vidual protection measures, Eye/face protection Skin protection Hand protection Other Respiratory protection Thermal hazards meral hygiene	Type TWA No biological exposure Good general ventilation should be matched to a or other engineering contexposure limits have n engineering measures Occupational Exposure ground, cut, or used in ventilation to keep exp such as personal prote Wear safety glasses w Wear appropriate cher Use a NIOSH/MSHA a exceeding the exposur Wear appropriate ther Always observe good p and before eating, drin equipment to remove of	I limits noted for the ingredi on (typically 10 air changes conditions. If applicable, us ontrols to maintain airborne ot been established, mainta are not sufficient to mainta e Limit (OEL), suitable resp any operation which may g osures below the recomme ective equipment ith side shields (or goggles nical resistant gloves. nical resistant clothing. pproved respirator if there i e limits. nal protective clothing, whe personal hygiene measures king, and/or smoking. Rou	10 mg/m3 ent(s). per hour) should b e process enclosur levels below recor ain airborne levels in concentrations of iratory protection n generate dusts, use inded exposure lim). is a risk of exposur en necessary. s, such as washing	Total particulate. Total particulate. Tes, local exhaust ventilation nmended exposure limits. to an acceptable level. If of dust particulates below the nust be worn. If material is appropriate local exhaus its.
Components UREA (CAS 57-13-6) logical limit values propriate engineering trols vidual protection measures, Eye/face protection Skin protection Hand protection Other Respiratory protection Thermal hazards heral hygiene siderations	Type TWA No biological exposure Good general ventilation should be matched to a or other engineering contexposure limits have n engineering measures Occupational Exposure ground, cut, or used in ventilation to keep exp such as personal prote Wear safety glasses w Wear appropriate cher Use a NIOSH/MSHA a exceeding the exposur Wear appropriate ther Always observe good p and before eating, drin equipment to remove of	I limits noted for the ingredi on (typically 10 air changes conditions. If applicable, us ontrols to maintain airborne ot been established, mainta are not sufficient to mainta e Limit (OEL), suitable resp any operation which may g osures below the recomme ective equipment ith side shields (or goggles nical resistant gloves. nical resistant clothing. pproved respirator if there i e limits. nal protective clothing, whe personal hygiene measures king, and/or smoking. Rou	10 mg/m3 ent(s). per hour) should b e process enclosur levels below recor ain airborne levels in concentrations of iratory protection n generate dusts, use inded exposure lim). is a risk of exposur en necessary. s, such as washing	Total particulate. Total particulate. Tes, local exhaust ventilation nmended exposure limits. to an acceptable level. If of dust particulates below the nust be worn. If material is appropriate local exhaus its.

Physical state	Solid.
Form	Granular.

Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	270.86 °F (132.7 °C) estimated
Initial boiling point and boiling range	2732 °F (1500 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00002 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	11.93 lbs/gal estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	1.43 estimated
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, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological informat	tion

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	Dusts may irritate the respiratory tract, skin and eyes.

Information on toxicological effe	ects		
Acute toxicity	Not known.		
Components	Species		Test Results
Amorphous Silica (total Dust) (CAS	S 112926-00-8)		
Acute			
Oral			00500 //
LD50	Rat		> 22500 mg/kg
UREA (CAS 57-13-6)			
Acute			
Oral LD50	Rat		9471 ma/ka
			8471 mg/kg
Skin corrosion/irritation	Prolonged skin contact may	· ·	
Serious eye damage/eye irritation	Direct contact with eyes may	y cause temporary irritat	tion.
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected		
Germ cell mutagenicity	No data available to indicate mutagenic or genotoxic.	e product or any compor	nents present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcine	ogenicity to humans.	
IARC Monographs. Overall E	Evaluation of Carcinogenicit	ty .	
Amorphous Silica (total D Crystalline Sio2 (quartz) (OSHA Specifically Regulate	(CAS 14808-60-7)	1 Carcinogenic to hi	to carcinogenicity to humans. umans.
Crystalline Sio2 (quartz) (-	Cancer	
US. National Toxicology Pro	ogram (NTP) Report on Carc	inogens	
Crystalline Sio2 (quartz) ((CAS 14808-60-7)	Known To Be Huma	an Carcinogen.
Reproductive toxicity	This product is not expected	I to cause reproductive of	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	e harmful.	
Further information	This product has no known adverse effect on human health.		
12. Ecological information	n		
Ecotoxicity	The product is not classified		zardous. However, this does not exclude the armful or damaging effect on the environment.
Components	Species		Test Results
UREA (CAS 57-13-6)			
Aquatic			
-	EC50 Water flea (I	Daphnia magna)	3910 mg/l, 48 hours
Fish	LC50 Giant gourar	ni (Colisa fasciata)	5 mg/l, 96 hours
Persistence and degradability	No data is available on the		edients in the mixture.
Bioaccumulative potential			
Partition coefficient n-octan	ol / water (log Kow)	-2.11	
		-2.11	
Mobility in soil	No data available.		

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

UN number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (UREA, POLYMER COATED SULFUR COATED UREA - XCU)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	
Environmental hazards	Yes
ERG Code	9L
Special precautions for user Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (UREA, POLYMER COATED SULFUR COATED UREA - XCU), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
IATA: IMDG	

IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations	eral regulations
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ions This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Crystalline Sio2 (quartz) (CAS 14808-60-7)

Cancer lung effects immune system effects kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

California Proposition 65



WARNING: This product can expose you to Crystalline Sio2 (quartz), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline Sio2 (quartz) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Crystalline Sio2 (quartz) (CAS 14808-60-7) Dolomite (CAS 16389-88-1)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name On inventory (ye	es/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
** ** *		

*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	08-28-2018
Version #	01
Disclaimer	GROWMARK FS LLC. 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.