

SAFETY DATA SHEET

1. Identification Product identifier Recommended use Recommended restrictions

Jehearth 28 For Industrial Use Only Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Manufacturer/Supplier information

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2. Hazard(s) identification

Physical hazards Heath hazards Environmental hazards OSHA defined hazards Label elements Not classified. Carcinogenicity Not classified. Not classified.

Category 1A



Signal word Hazard Statement Precautionary statement Prevention

> Response Storage

Danger. May cause cancer.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection. If concerned: Get medical advice/attention. Store locked up.

Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations
Hazard(s) not otherwise Classi	ified (HNOC)
	None Known.
Supplemental information	Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
Magnesium Oxide		1309-48-4	*
Aluminum Oxide (Non-Fibrous)	1344-28-1	*
Iron Oxide		1309-37-1	*
Silica	Quartz	14808-60-7	*
Calcium Oxide		1305-78-8	*

*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 your eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effe	ects, acute and delayed
	Dust may irritate the respiratory tract, skin, and eyes.
	Coughing.
Indication of immediate medica	al attention and special treatment needed
	Provide general supportive measures and treat
	symptomatically. Keep the victim under observation.
	Symptoms may be delayed.
General information	If concerned: Get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Not available.

Specific hazards arising from the chemical

Not available.

Special protective equipment and precautions for firefighters

Not available.

Special Remarks on Fire Hazards

Chlorine Trifluoride reacts violently with Aluminum Oxide producing a flame.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from, and upwind of spill/leak. 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

Wear appropriate protective equipment and clothing
during clean-up. Collect the spill using a vacuum cleaner
with a HEPA filter. Place in a closed container. For waste
disposal, see section 13 of the SDS.
Avoid discharge into drains, water courses, or onto the

Environmental precautions

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

7. Handling and storage

Precautions for safe handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities

Store locked up. Store in the original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	Form
Magnesium Oxide	PEL	15 mg/m3	Total particulate.

(CAS 1309-48-4)			
Aluminum oxide	PEL	5mg/m3	Respirable fraction
(CAS 1344-28-1)			
Iron oxide	TWA	10mg/m3	Respirable fraction
(1309-37-1)			
Calcium Oxide	PEL	5 mg/m3	
(CAS 1305-78-8)			

US OSHA Table Z-3 (29 CFR 1910.1000)

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Components	Туре	Value	Form	
Quartz	TWA	0.3 mg/m3	Total dust.	
(CAS 14808-60-7)		0.1 mg/m3	Respirable.	
		2.4 mppcf	Respirable.	

US ACGIH Threshold Limit Values

Components	Туре	Value	Form
Magnesium Oxide	TWA	10 mg/m3	Inhalable fraction.
(CAS 1309-48-4)			
Quartz	TWA	0.025mg/m3	Respirable fraction
(CAS 14808-60-7)			
Aluminum oxide	TWA	1mg/m3	Respirable fraction
(CAS1344-28-1)			
Calcium Oxide	TWA	2 mg/m3	
(CAS 1305-78-8)		-	

Туре	Value	Form
TWA	2 mg/m3	
TWA	0.05 mg/m3	Respirable dust.
	TWA	TWA 2 mg/m3

Biological limit valuesNo biological exposure limits were noted for the
ingredient(s).Exposure guidelinesOccupational exposure to nuisance dust (total and
respirable) and respirable crystalline silica should be
monitored and controlled.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation that may generate dust, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Wear appropriate thermal protective clothing, when

Skin protection Hand protection Other Respiratory protection

Wear appropriate chemical-resistant gloves. Use of an impervious apron is recommended. Use a NIOSH/MSHA-approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards



General Hygiene Considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

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Appearance	
Physical state	Solid.
Form	Solid.
Color	Varies.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	range
	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or ex	plosive limits
Flammability limit - lowe	r (%)
	Not available.
Flammability limit - uppe	er (%)
	Not available.
Explosive limit - lower (%	6)
	Not available.
Explosive limit - upper (9	%)
	Not available.

Vapor pressure Vapor density Relative Density Solubility(ies) Solubility (water) Partition coefficient (n-octano	Not available. Not available. Not available Not available. I/water) Not available.
Auto-ignition temperature Decomposition temperature Viscosity	Not available. Not available. Not available.
10. Stability and reactivi Reactivity Chemical stability Possibility of hazardous reacti	The product is stable and non-reactive under normal conditions of use, storage, and transport. Material is stable under normal conditions. ons No dangerous reaction is known under conditions of
Conditions to avoid Incompatible materials	normal use. Contact with incompatible materials. Powerful oxidizers. Chlorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure. Contact your sales representative for clarification.
Hazardous decomposition pro	
11. Toxicological informa	
Information on likely routes of Inhalation	Dust may irritate the 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 phys	ical, chemical, and toxicological characteristics Dust may cause mechanical irritation to the eyes and skin. Ingestion may cause transient irritation of the throat, stomach, and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness.
Information on toxicological e	5
Acute toxicity	Not available.
	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye	e irritation Direct contact with the eyes may cause temporary irritation.
Respiratory or skin sens	

Respiratory sensitization

Respiratory sensitization			
	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data is available to indicate product, or any		
	components present at greater than 0.1% are mutagenic or		
	genotoxic.		
Carcinogenicity	In 1997, IARC (the International Agency for Research on		
	Cancer) concluded that crystalline silica inhaled from		
	occupational sources can cause lung cancer in humans.		
	However, in making the overall evaluation, IARC noted that		
	"carcinogenicity was not detected in all industrial		
	circumstances studied. Carcinogenicity may be dependent		
	on inherent characteristics of the crystalline silica or		
	external factors affecting its biological activity or		
	distribution of its polymorphs." (IARC Monographs on the		
	evaluation of the carcinogenic risks of chemicals to		
	humans, Silica, silicate dust, and organic fibers, 1997, Vol.		
	68, IARC, Lyon, France.) In June 2003, SCOEL (the EU		
	Scientific Committee on Occupational Exposure Limits)		
	concluded that the main effect in humans of the inhalation		
	of respirable crystalline silica dust is silicosis. "There is		
	sufficient information to conclude that the relative risk of		
	lung cancer is increased in persons with silicosis (and,		
	apparently, not in employees without silicosis exposed to		
	silica dust in quarries and in the ceramic industry).		
	Therefore, preventing the onset of silicosis will also reduce		
	the cancer risk" (SCOEL SUM Doc 94-final, June 2003)		
	According to the current state of the art, worker		
	protection against silicosis can be consistently assured by		
	respecting the existing regulatory occupational exposure		
	limits. May cause cancer. Occupational exposure to		
	respirable dust and respirable crystalline silica should be		
	monitored and controlled.		
IARC Monographs. Over	all Evaluation of Carcinogenicity		
Quartz (SiO2) (CA	S 14808-60-7) 1 Carcinogenic to humans.		
US National Toxicology	Program (NTP) Report on Carcinogens		
Quartz (SiO2) (CA	S 14808-60-7) Known To Be Human Carcinogen.		
US OSHA Specifically Re	gulated Substances (29 CFR 1910.1001-1050)		
	Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or		
	developmental effects.		
Developmental effects			
Quartz (SiO2)	0		
Developmental effects -	EU category		
Quartz (SiO2)	0		
Embryotoxicity			
Quartz (SiO2)	0		
Reproductively			
Quartz (SiO2)	0		

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. Prolonged exposure	
	may cause chronic effects.	

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bio-accumulative potential Mobility in soil Other adverse effects	No data available. No data available. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not hazardous waste according to Fede regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is t responsibility of the user of the product to determine, the time of disposal, whether the product meets RCRA criteria for hazardous waste.	
Hazardous waste code	Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.	

Waste from residues / unused products

	Not available.
Contaminated packaging	Not available.

14. Transport information

Not regulated as dangerous goods.
Not regulated as dangerous goods.
Not regulated as dangerous goods.
Not regulated as dangerous goods.
Not classified.
Not applicable.

15. Regulatory information

15. Regulatory mormati	011	
US federal regulations	OSHA Hazard Communi One or more component All chemical substances	dous Chemical" as defined by the cation Standard, 29 CFR 1910.1200. ts are not listed on TSCA. in this product are listed on the ce inventory where required.
TSCA Section 12(b) Exp	ort Notification (40 CFR Not regulated.	
CERCLA Hazardous Sub	ostance List (40 CFR 302 Not listed.	.4)
SARA 304 Emergency r		
US OSHA Specifically Re	egulated Substances (29 Not listed.	CFR 1910.1001-1050)
Superfund Amendments and R Hazard categories		86 (SARA)
SARA 302 Extremely hazardou	us substance	
SARA 311/312 Hazardous Chem	Not listed. nical No	
SARA 313 (TRI reporting) Chemical Name	CAS number	0/ by wt
Aluminum Oxide (Non-Fibrou		% by wt.
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 Ac	t (SDWA) Not regulated.	
US state regulations US California Controlled and Safety Code Sectior US Massachusetts RTK -	n 11100) Not listed. Substance List Magnesium oxide (CAS	nent of Justice (California Health 1309-48-4) Tibrous) (CAS 1344-28-1)
US New Jersey Worker a	Aluminum Oxide (Non-F Quartz (SiO2) (CAS 1480 Calcium Oxide (CAS 130 and Community Right-to Magnesium oxide (CAS Aluminum Oxide (Non-F Quartz (SiO2) (CAS 1480	08-60-7) 5-78-8) -Know Act 1309-48-4) Tibrous) (CAS 1344-28-1)

Calcium Oxide (CAS 1305-78-8) US Pennsylvania Worker and Community Right-to-Know Law Magnesium oxide (CAS 1309-48-4) Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1) Quartz (SiO2) (CAS 14808-60-7) Calcium Oxide (CAS 1305-78-8) US Rhode Island RTK Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1) US California Proposition 65 This product contains a chemical known to the State of California to cause cancer. US - California Proposition 65 - CRT: Listed date/Carcinogenic substance Quartz (SiO2) (CAS 14808-60-7) Listed: October 1, 1988

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

This information is supplied to be informative and to alert the user of the material. The ultimate compliance with federal, state, and/or local regulations concerning the use of this material, or compliance with respect to product liability, rests solely upon the purchaser thereof.

Prepared by:	FRC Global
Date:	October 2020

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End of Safety Data Sheet