

SAFETY DATA SHEET

according to Regulation (EU) 2020/878

Hi-Temp

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Revision 0

Revision date 2025-01-09

SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1. Product identifier					
Product name	Hi-Temp				
1.2. Relevant identified uses of t	1.2. Relevant identified uses of the substance or mixture and uses advised against				
Description	Foundry material.				
1.3. Details of the supplier of the	e safety data sheet				
Company	Ransom & Randolph				
Address	3535 Briarfield Boulevard				
	Maumee, Ohio 43537 USA				
Web	www.ransom-randolph.com				
Telephone	+1 (419) 865-9497				
Fax	+1 (419) 865-9997				
Email	SDS@ransom-randolph.com				
Email address of the	rcarter@ransom-randolph.com				
competent person					
1.4. Emergency telephone numb	ber				
Emergency telephone number	USA +1 419 865 9497				
Company	Ransom & Randolph Co.				
	08:00-17:00 (US Eastern Std. / GMT minus 5)				
	For medical advice contact:				
	NHS 111 in England: 111				
	NHS 24 in Scotland: 111				
	NHS Direct in Wales: 111 or 0845 4647				
SECTION 2: Hazards identifi	cation				
2.1. Classification of the substan	ice or mixture				
2.1.2. Classification - EC	Carc. 1A: H350; STOT RE 1: H372;				
1272/2008					
2.2. Label elements					
Hazard pictograms	This substance / mixture has been classified in accordance with the US Federal OSHA Hazard Communication Standard 29CFR 1910.1200. Substance concentration band-ranges are presented, and minor ingredient composition maybe withheld, to protect trade secrets.				
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2.2. Label elements	
Signal Word	Danger
Hazard Statement	Carc. 1A: H350 - May cause cancer inhalation. STOT RE 1: H372 - Causes damage to organs (lungs) through prolonged or repeated exposure inhalation.
Precautionary Statement: Prevention	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash (hands) thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P285 - In case of inadequate ventilation wear respiratory protection.
Precautionary Statement: Response	P308+P313 - IF exposed or concerned: Get medical advice/attention. P314 - Get medical advice/attention if you feel unwell.
Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations
2.3. Other hazards	
Other hazards	Product contains crystalline silica.
Further information	
	Not applicable. PBT and vPvB assessment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
quartz (conc. >/= 1.0%)		14808-60-7	238-878-4			Carc. 1A: H350; STOT RE 1: H372;
silica (cristobalite conc. >/= 1.0 %)		14464-46-1	238-455-4		20 - 30%	Carc. 1A: H350; STOT RE 1: H372;

Particle Characteristics

Full text for all Risk Phrases mentioned in this section are displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.	
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.	
Skin contact	Wash with soap and water.	
Ingestion	Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING.	
4.2. Most important symptoms and effects, both acute and delayed		
Inhalation	May cause irritation to respiratory system.	
Eye contact	May cause irritation to eyes.	
Skin contact	May cause irritation to skin.	
Ingestion	May cause irritation to mucous membranes.	



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4.3. Indication of any immediate	medical attention and special treatment needed
Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention if irritation or symptoms persist.
SECTION 5: Firefighting mea	asures
5.1. Extinguishing media	
	Use extinguishing media appropriate to the surrounding fire conditions.
5.2. Special hazards arising from	n the substance or mixture
	Burning produces irritating, toxic and obnoxious fumes.
5.3. Advice for firefighters	
	Self-contained breathing apparatus. Wear suitable protective clothing.
SECTION 6: Accidental relea	ase measures
6.1. Personal precautions, prote	ctive equipment and emergency procedures
	Avoid raising dust. Wear suitable respiratory equipment when necessary.
6.2. Environmental precautions	
	No environmental requirements.
6.3. Methods and material for co	ntainment and cleaning up
	Avoid raising dust. Clean the area using a vacuum cleaner. Transfer to suitable, labelled containers for disposal.
6.4. Reference to other sections	
	See section for further information.
SECTION 7: Handling and st	torage
7.1. Precautions for safe handlin	g
	Avoid raising dust. Ensure adequate ventilation of the working area. In case of insufficient ventilation, wear suitable respiratory equipment.
	Do not eat, drink or smoke in areas where this product is used or stored. Wash hands after handling the product.
7.2. Conditions for safe storage,	including any incompatibilities
	Keep containers tightly closed.
7.3. Specific end use(s)	
	Foundry material.
SECTION 8: Exposure contr	ols/personal protection
8.1. Control parameters	
	exposure limits: total Crystalline Silica (quartz plus cristobalite) - 0.025 mg/m3 TWA ACGIH TLV (respirable fraction); 50 ug/m3 8 hr -TWA PEL (respirable fraction).
8.2. Exposure controls	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.



8.2. Exposure controls		
8.2.2. Individual protection	Protective clothing.	
measures		
Eye / face protection	In case of splashing, wear:. Approved safety goggles. safety glasses with side-shields.	
Skin protection -	Wear suitable gloves.	
Handprotection		
Respiratory protection	Suitable respiratory equipment.	
8.2.3. Environmental exposure	Not normally required.	
controls		
Occupational exposure	Appropriate local exhaust ventilation is required.	
controls		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Powder
	Off white
	Odourless
	Not applicable.
	Not applicable.
-	Not applicable.
Initial boiling point	
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Vapour Flammability	Not applicable.
Upper Explosive Limit	Not applicable.
Lower Explosive Limit	Not applicable.
Vapour pressure	Not applicable.
Relative Vapour Density	Not applicable.
Density / Relative Density	Not applicable.
Water solubility	Not applicable.
Fat Solubility	Not applicable.
Partition coefficient	Not applicable.
(n-octanol/water)	
Partition coefficient	
Autoignition temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.

9.2. Other information

Softening point	Not applicable.
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic	
compounds)	
SECTION 10: Stability and reactivity	



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10.1. Reactivity

	Not applicable.		
10.2. Chemical stability			
	Stable under normal conditions.		
10.3. Possibility of hazardous re	actions		
	No Significant Hazard.		
10.4. Conditions to avoid			
	Moisture.		
10.5. Incompatible materials			
	No Significant Hazard.		
10.6. Hazardous decomposition products			
	Hazardous Decomposition Products (silica): Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride. Reaction with water or acids generates heat.		
SECTION 11: Toxicological information			
11.1 Information on hazard classes			

Acute toxicity	Based on available data, the classification criteria are not met.		
Skin corrosion/irritation	Prolonged or repeated exposure may cause irritation to skin and mucous membranes.		
Serious eye damage/irritation	If eye irritation persists: Get medical advice/attention.		
Respiratory or skin	No sensitizaton effects reported.		
sensitisation			
Germ cell mutagenicity	No mutagenic effects reported.		
Carcinogenicity	Known Human Carcinogens (Category 1).		
Reproductive toxicity	No observed effect level. No observed effect concentration.		
STOT-single exposure	No known adverse health effects.		
STOT-repeated exposure	Chronic effects Prolonged inhalation of respirable crystalline silica In 1997, the International Agency for Research on Cancer (IARC) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France). In June 2003, the European Commission's Scientific Committee for Occupational Exposure Limits (SCOEL) concluded: "that the main effect in humans of the inhalation of respirable crystalline silica is silicosis. There is sufficient information to conclude that the relative lung cancer risk 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. Since a clear threshold for silicosis development cannot be identified, any reduction of exposure will reduce the risk of silicosis." (SCOEL SUM Doc 94-final on respirable crystalline silica, June 2003) There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see Section 16).		
Aspiration hazard	No Significant Hazard.		



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11.1 Information on hazard classes Repeated or prolonged Inhalation may cause couphing, tightness of the chest and irritation of the respiratory system. SECTION 12: Ecological Information 12.2. Persistence and degradability No data is available on this product. 12.3. Bioaccumulative potential Does not bioaccumulate. Partition coefficient Inhabitity in soil 12.4. Mobility in soil Not determined. 12.7 Other adverse effects Not determined. 12.7 Other adverse effects Not applicable. SECTION 13: Disposal considerations 13.1. Waste treatment methods Dispose of in compliance with all. local and national regulations. Disposal methods Contact a licensed waste disposal company. Disposal methods SECTION 14: Transport information Further information The product is not classified as dangerous for carriage. SECTION 15: Regulatory information 15.1. Safeky, health and environmental regulations/escile on strained classer reporting requirements. Report spin arcycle on recycling. SECTION 15: Regulatory information 15.1. Safeky, health and environmental regulations/escile on strained c		
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.
	U.S. STATE REGULATIONS California Proposition 65: This product contains the following substances known to the State of California to cause cancer: Crystalline Silica as Quartz and Cristobalite (> 90%)
	INTERNATIONAL REGULATIONS:
	Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).
	Canadian WHMIS Classification: Class D Division 2A.
15.2. Chemical safety assessment	
	No data is available on this product.

SECTION 16: Other information

Other information		
Text of Hazard Statements in Section 3	Carc. 1A: H350 - May cause cancer . STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .	
Further information		
	Training Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations. The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.	

