

Pakan

superinsulation

Safety Data Sheet

SDS Date 01 August 2020

IRogel Blanket



SAFETY DATA SHEET

Product Name **IRogel**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **PAKAN ATIYE NANO DANESH CO. LTD**
Address **IRAN, ZANJAN**
Telephone **982147620670**
Emergency **989361135075**
Email **Info@irogel.com**
Synonym(s)
Use(s)
SDS Date **August 2020**

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

None allocated

SAFETY PHRASES

None allocated

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN Number **None Allocated** **DG Class** **None Allocated**
Packing Group **None Allocated** **Subsidiary Risk(s)** **None Allocated**
Hazchem Code **None Allocated**

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Identification	Classification	Content
TRIMETHYLATED SILICA	CAS: 68909-20-6 EC: 272-697-1	Not Available	40 - 55%
FIBROUS GLASS	Not Available	Not Available	40 - 50%
ALUMINIUM HYDROXIDE	CAS: 21645-51-2 EC: 244-492-7	Not Available	<5%
RUTILE (TIO ₂)	CAS: 1317-80-2 EC: 215-282-2	Not Available	1 - 5%

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Due to product form and application, ingestion is considered unlikely.

Advice to Doctor Treat symptomatically.



5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases (carbon oxides) when heated to decomposition.
Fire and Explosion	No fire or explosion hazard exists.
Extinguishing	Prevent contamination of drains or waterways.
Hazchem Code	None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt/ packages damaged, collect for later disposal or reuse. For large spills, use personal protective equipment. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Avoid generating dust.
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7. STORAGE AND HANDLING

Storage	Store in a cool, dry, well ventilated area, removed from acids and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Also store removed from alkalis.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas. Aerogel blankets will generate dust when handled. Workplace exposure to all dusts should be controlled with standard industrial hygiene practices. Dry vacuuming is the preferred method for cleaning up dust. Because Aerogel dust is hydrophobic, water is not effective as a dust control agent.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Non-respirable fibres, inspirable dust	SWA (AUS)	--	2	--	--
Synthetic mineral fibres (SMF)	SWA (AUS)	--	0.5 f/ml	--	--
Titanium dioxide	SWA (AUS)	--	10	--	--

Biological Limits	No biological limit allocated.
Engineering Controls	Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE

Eye / Face	Wear dust-proof goggles.
Hands	Wear nitrile or latex gloves.
Body	Wear coveralls.
Respiratory	Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	OPAQUE YELLOW FABRIC BLANKET
Odour	ODOURLESS
Flammability	NON FLAMMABLE
Flash point	NOT APPLICABLE
Boiling point	NOT APPLICABLE
Melting point	NOT APPLICABLE



Product Name **IRogel**

Evaporation rate	NOT APPLICABLE
pH	NOT APPLICABLE
Vapour density	NOT APPLICABLE
Specific gravity	NOT APPLICABLE
Solubility (water)	NOT APPLICABLE
Vapour pressure	NOT APPLICABLE
Upper explosion limit	NOT APPLICABLE
Lower explosion limit	NOT APPLICABLE
Autoignition temperature	NOT APPLICABLE
Decomposition temperature	NOT APPLICABLE
Viscosity	NOT APPLICABLE
Partition coefficient	NOT APPLICABLE
% Volatiles	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended conditions of storage.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources.
Material to Avoid	Incompatible with acids (especially hydrofluoric acid) and alkalis (eg. sodium hydroxide).
Hazardous Decomposition Products	May evolve toxic gases (carbon oxides) when heated to decomposition.
Hazardous Reactions	Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Low toxicity - low irritant. Use safe work practices to avoid eye or skin contact and inhalation. Chronic exposure to amorphous silica is not anticipated to result in lung disease, however those individuals with impaired function respiratory or disease are advised to avoid exposure.
Eye	Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness.
Inhalation	Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.
Skin	Low irritant. Prolonged or repeated contact may result in mechanical irritation.
Ingestion	Low toxicity. Ingestion may result in gastrointestinal irritation, nausea and vomiting.
Toxicity Data	ALUMINIUM HYDROXIDE (21645-51-2) LDLo (intraperitoneal) 150 mg/kg (rat) TDLo (ingestion) 79 g/kg/2 years - intermittent (child)

12. ECOLOGICAL INFORMATION

Environment	The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.
Persistence/Degradability	Not applicable for inorganic material.
Mobility	None expected due to insoluble nature of product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Reuse where possible. No special precautions are required for this product.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	None Allocated	None Allocated	None Allocated
Proper Shipping Name	None Allocated	None Allocated	None Allocated



DG Class/ Division	None Allocated	None Allocated	None Allocated
Subsidiary Risk(s)	None Allocated	None Allocated	None Allocated
Packing Group	None Allocated	None Allocated	None Allocated
Hazchem Code	None Allocated		

15. REGULATORY INFORMATION

Poison Schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
Inventory Listing(s)	AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt. UNITED STATES: TSCA (US Toxic Substances Control Act) All components are listed on the TSCA inventory, or are exempt.

16. OTHER INFORMATION

Additional Information	Under certain conditions, such as high storage temperatures, the product may have a faint ammonia like odour.
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RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this ChemAlert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations	ACGIH	American Conference of Governmental Industrial Hygienists
	CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
	CNS	Central Nervous System
	EC No.	EC No - European Community Number
	GHS	Globally Harmonized System
	IARC	International Agency for Research on Cancer
	LD50	Lethal Dose, 50% / Median Lethal Dose
	mg/m ³	Milligrams per Cubic Metre
	PEL	Permissible Exposure Limit
	pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
	ppm	Parts Per Million
	REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
	STOT-RE	Specific target organ toxicity (repeated exposure)
	STOT-SE	Specific target organ toxicity (single exposure)
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
	TLV	Threshold Limit Value
	TWA/OEL	Time Weighted Average or Occupational Exposure Limit

Revision History

Revision	Description
1.0	Initial SDS Creation



Product Name IRogel

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

Prepared By

Risk Management Technologies

Revision: 1
SDS Date: 01 August 2012

End of SDS

