Informationsblatt ***in Anlehnung an das Format des Sicherheitsdatenblattes*** **Information Sheet** **based on the Format of the Material Safety Data Sheet**	Saveway Isolierstoffe GmbH Saveway Handels GmbH SIAMAT

!!! Bitte unbedingt lesen - Please read carefully !!!

Vorwort | Preamble

Deutsche Version

Dieses Produkt ist ein Erzeugnis im Sinne von REACH (Verordnung (EG) Nr. 1907/2006). Es besteht daher keine rechtliche Verpflichtung, dem Empfänger ein Sicherheitsdatenblatt vorzulegen. Zudem ist das Produkt nicht kennzeichnungspflichtig.
Da jedoch bei der Bearbeitung des Erzeugnisses (z.B. durch Schleifen, Schneiden, Fräsen o.ä. Verfahren) größere Mengen Staub und damit möglicherweise seine Einzelkomponenten freigesetzt werden können, stellen wir Ihnen auf freiwilliger Basis dieses Informationsblatt zur Verfügung. Es informiert Sie über unser Produkt und hilft Ihnen bei der Einschätzung und Eindämmung von möglichen Gefahren, die von diesen Einzelkomponenten ausgehen können.

Da wir nicht verpflichtet sind, Sicherheitsdatenblätter auszustellen, möchten wir den internen Aufwand auch möglichst geringhalten. Sie erhalten unsere Informationsblätter daher ausschließlich in englischer Sprache.

English version

This finished product is an article as defined by REACH (Regulation (EC) No 1907/2006). And therefore, there is no legal obligation to provide the recipient with a safety data sheet.
In addition, the product is not subject to labeling.
However, as the processing of the product (such as grinding, cutting, milling or similar processes) can release large quantities of dust and possibly its individual components, we provide this information sheet on a voluntary basis.
It informs you about our product and helps you to estimate and control the potential dangers that may arise from these individual components.

Since we are not obligated to issue material safety data sheets, we also want to keep the internal effort as low as possible. Therefore, you will receive our information sheet exclusively in English.

!!! Bitte unbedingt lesen - Please read carefully !!!

Information Sheet for Article:
SW - TEMP STS

1 Identification

GHS Product Identifier

SW-TEMP STS (high temperature gasket mica sheet with stainless steel)

Other means of identification

SW-TEMP STS is made from 2 layers of high-grade Phlogopite mica paper impregnated with a silicone binder and in the middle a perforated stainless steel insert.

Recommended use of the chemical and restriction on use

The high firmness, chemical resistance and the excellent thermal characteristics make SW-TEMP STS the preferred material for high temperature gaskets.

Gaskets/seals made of SW-TEMP STS are used in a broad range of industries:

- automotive (exhaust manifolds)
- petrochemistry (gas & oil)
- chemical
- fuel cells
- gas turbines & turbo generators

Supplier's details

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Emergency phone number

The common European emergency number is **112**
Further emergency numbers can be found at https://en.wikipedia.org/wiki/List_of_emergency_telephone_numbers

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified.

GHS label elements

Other hazards which do not result in classification

The following GHS label elements and hazards are not representative for the final product, they are merely information about its components.

It is the responsibility of the user to assess potential exposure based on processing of the product.

Mica-group minerals

Danger! According to the classification provided by companies to ECHA in CLP notifications this substance causes damage to organs (Lungs) through prolonged or repeated exposure, causes serious eye irritation, may cause respiratory irritation and causes skin irritation.

3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
mica-group minerals	12001-26-2	215-479-3	43	Muscovite [KAl2(AlSi3O10)(OH)2], Phlogopite [KMg3(AlSi3O10)(OH)2]
stainless steel	12597-68-1		54	perforated stainless steel
rubber, silicone	63394-02-5		3	

4 First-aid measures

Description of necessary first-aid measures

P300-Series: Response

P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

Most important symptoms/effects, acute and delayed

Unknown

Indication of immediate medical attention and special treatment needed, if necessary

Unknown

5 Fire-fighting measures

Suitable extinguishing media

P300-Series: Response

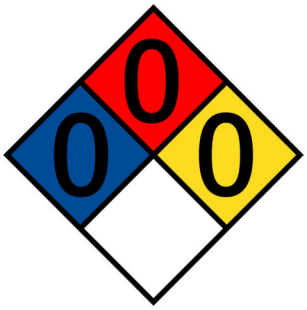
P370+P378	In case of fire: Use CO_2, powder or water spray to extinguish.
P373	DO NOT fight fire when fire reaches explosives.
P374	Fight fire with normal precautions from a reasonable distance.

Specific hazards arising from the chemical

This product is non-combustible but packaging and surrounding materials may be combustible.
Use extinguishing agent suitable for surrounding materials.

Special protective actions for fire-fighters

NFPA 704, Standard System:



6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Minimize airborne dust. Compressed air or dry sweeping should not be used for cleaning.
Provide operators involved in cleaning with dust masks if necessary.
See section 8.3 "Individual protection measures".

Environmental precautions

N/A

Methods and materials for containment and cleaning up

Avoid clean up procedures that could result in dust generation or water pollution. Do not use compressed air for clean up. Frequently clean the work area with HEPA filtered vacuum or wet sweeping to minimize the accumulation of debris. Dispose in closed containers. Dispose of contaminated material as directed.

7 Handling and storage

Precautions for safe handling

P100-Series: General

P101	If medical advice is needed, have product container or label at hand.
P103	Read label before use.

P200-Series: Prevention

P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

Conditions to increase the durability not because of safety reasons:
The product has to be stored flat, below temperatures of 23 °C and a relative humidity of 75 %.
Atmosphere has also to be free of corrosive gases.

8 Exposure controls/personal protection

Control parameters

According to national and local regulations for dust exposure. Hygiene standards and exposure limits may differ from country to country. Check those currently applying in your country and comply with regulations.

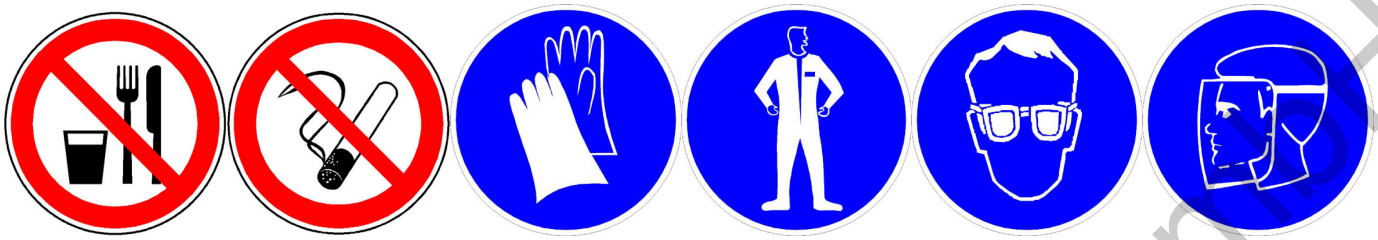
Updates on OELs can be found on the following websites:
IFA - Technical information Occupational exposure limit values (OELs):
http://www.dguv.de/ifa/fachinfos/occupational-exposure-limit-values/index.jsp
GESTIS International Limit Values:
http://limitvalue.ifa.dguv.de/

Appropriate engineering controls

Use engineering controls such as local exhaust ventilation, point of generation dust collection, down draft work stations, emission controlling tool designs, and materials handling equipment designed to minimize airborne fiber emissions.

Review your applications in order to identify potential sources of dust exposure. If necessary, conduct personal air monitoring.

Individual protection measures



P200-Series: Prevention

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands and body thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Workers should be informed on:

- the requirements regarding smoking, eating and drinking at the workplace;
- the requirements for protective equipment and clothing.

Workers should be trained on:

- the good working practices to limit dust emission;
- the proper use of protective equipment.

9 Physical and chemical properties

Physical and chemical properties

Parameter	Value	Method	Note
Appearance	solid, sheets		green
Odour	characteristic		
Odour threshold			N/A
pH		DIN 19268	N/A
Melting point/freezing point	>1330°C		
Initial boiling point and boiling range			N/A
Flash point		ISO 1523	ND
Evaporation rate			ND
Flammability (solid, gas)			ND
Upper/lower flammability or explosive limits			ND
Vapour pressure			ND
Vapour density			ND (air = 1)
Relative density	~ 1.8 – 2.2 g/cm³	ISO 2811-1	water = 1 (20°C)
Solubility(ies)	not soluble in water		
Partition coefficient: n-octanol/water			ND
Auto-ignition temperature			N/A
Decomposition temperature	> 200 °C (at air)		literature value
Viscosity		ISO 1523	ND
Explosive properties			N/A
Oxidising properties			N/A
N/A = not applicable	ND = not determined		

10 Stability and reactivity

Reactivity

Unknown

Chemical stability

The mica component is chemically inert. The stainless steel has a high resistance against oxidation, acids and bases.

Possibility of hazardous reactions

No dangerous reactions are expected when used as intended.
Hydrogen is released from the stainless steel in contact with acid which can cause explosive gas mixtures.

Conditions to avoid

Avoid higher temperatures than room temperature (appr. 23°C). Not because of safety reasons, but it may change the properties.

Incompatible materials

Unknown

Hazardous decomposition products

Unknown

11 Toxicological information

Toxicological (health) effects

Acute toxicity - oral
The product is not classified.

Acute toxicity - dermal
The product is not classified.

Acute toxicity - inhalation
The product is not classified.

Skin corrosion / irritation
The product is not classified.
Mica-group minerals cause skin irritation. Skin Irrit. 2

Serious eye damage / eye irritation
The product is not classified.
Mica-group minerals cause serious eye irritation. Eye Irrit. 2

Respiratory sensitisation
The product is not classified.

Skin sensitisation
The product is not classified.

Aspiration hazard
The product is not classified.

Reproductive toxicity
The product is not classified.

Effects on or via lactation
The product is not classified.

Germ cell mutagenicity
The product is not classified.

Carcinogenesis
The product is not classified.

Specific target organ toxicity - single
The product is not classified.
Mica-group minerals may cause respiratory irritation. STOT SE 3 (Respiratory tract)

Specific target organ toxicity - repeated
The product is not classified.
Mica-group minerals cause damage to organs through prolonged or repeated exposure. STOT RE 1 (Lungs)

Information on the likely routes of exposure

See section 11.1 "Toxicological (health) effects".

Symptoms related to the physical, chemical and toxicological characteristics

See section 11.1 "Toxicological (health) effects".

Delayed and immediate effects and also chronic effects from short and long term exposure

See section 11.1 "Toxicological (health) effects".

Numerical measures of toxicity (such as acute toxicity estimates)

Unknown

Interactive effects

Unknown

Where specific chemical data are not available

Unknown

Mixtures

Unknown

Mixture versus ingredient information

Unknown

Other information

Unknown

12 Ecological information

Toxicity

Hazardous to the aquatic environment (acute / short-term)
The product is not classified.

Hazardous to the aquatic environment (long-term)
The product is not classified.

Hazardous to the ozone layer
The product is not classified.

Persistence and degradability

Poorly degradable

Bioaccumulative potential

Unknown

Mobility in soil

No mobility in soil.

Other adverse effects

No known significant effects or critical hazards.

13 Disposal considerations

Disposal methods

Special Precautions
Unknown

International Regulations:
Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

EU Regulations:
Waste from this product is not classified as "hazardous" or "special" under European Union regulations.
Disposal is permitted at landfills licensed for industrial waste. Steel can be recycled.
Waste Classifications:
04 02 09 wastes from composite materials (impregnated textile, elastomer, plastomer)
07 02 13 waste plastic
19 12 02 ferrous metal

14 Transport information

UN Number

N/A

UN Proper Shipping Name

N/A

Transport hazard class(es)

The product is not classified.

Packing group, if applicable

N/A

Environmental hazards

N/A

Special precautions for user

N/A

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N/A

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

Transport Regulations:

ADR 2019 - European Agreement concerning the International Carriage of Dangerous Goods by Road from 1 January 2019
ADN 2019 - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways from 1 January 2019
IMDG-Code - International Maritime Dangerous Goods Code 2016 inkl. Amdt. 38-16 from 08 April 2016
RID 2017 - Regulations concerning the International Transport of Dangerous Goods by Rail from 1 January 2017
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air from 21 June 2017
IATA-DGR - Dangerous Goods Regulations

US Regulations:

U.S. Code of Federal Regulations (CFR). Title 40: Protection of Environment

EU Regulations:

EXPOSURE Legislation to Carcinogens or Mutagens
REACH Legislation
CLP Legislation
RoHS Legislation
Waste Legislation

National Regulations (Germany):

Technische Regeln für Gefahrstoffe (TRGS)
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) vom 18. April 2017
Verordnung zum Schutz vor Gefahrstoffen (Gefahrstoffverordnung - GefStoffV) vom 29. März 2017
Gesetz zur Ordnung des Wasserhaushalts (Wasserhaushaltsgesetz - WHG) vom 18. Juli 2017
Verordnung zur Sanktionsbewehrung gemeinschafts oder unionsrechtlicher Verordnungen auf dem Gebiet der Chemikaliensicherheit (Chemikalien-Sanktionsverordnung - ChemSanktionsV) vom 10. Mai 2016

16 Other information

Other information

Abbreviations

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AwSV	Ordinance on facilities for the handling of substances hazardous to water
AS/NZS	Standards Australia
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
CLP	Classification, Labelling and Packaging Regulation (EC) No 1272/2008
CND	Content not determined
DGUV	German Social Accident Insurance
DIN	Standard of the German Institute for Standardization
ECHA	European Chemicals Agency
EH	Environmental Hygiene
EINECS	European INventory of Existing Commercial chemical Substances
EN	European Standard
EU	European Union
GefStoffV	Hazardous Substances Ordinance
GESTIS	International limit values for chemical agents
GHS	Globally Harmonised System
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization - Technical Instructions
IFA	Institute for Occupational Safety of the German Social Accident Insurance
IMDG-Code	International Maritime Dangerous Goods Code
ISO	Standard of the International Organization for Standardization
MARPOL	Maritime Pollution Convention / International Convention for the Prevention of Pollution from Ships
MDHS	Methods for the Determination of Hazardous Substances
MFS	Minimum Functional Standards
MMVF	Man-Made Vitreous Fibers
MSDS	Material Safety Data Sheet
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health

OELs	Occupational exposure limit values
OSHA	Occupational Safety and Health Administration
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
RoHS	Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment
TRGS	Technical Regulations for Hazardous Substances
UN	United Nations
WHG	Act on the Regulation of water balance
WHO	World Health Organization

Literature and data sources

Bundesanstalt für Arbeitsschutz und Arbeitsmedizin
Bundesministerium der Justiz und für Verbraucherschutz (Federal German Ministry of Justice and Consumer Protection)
Deutsche Gesetzliche Unfallversicherung (German Social Accident Insurance)
European Chemicals Agency (ECHA)
European Commission
EUR-Lex / Access to European Union law
Umweltbundesamt – REACH
United States Environmental Protection Agency (EPA)

Further information

The information contained in this information sheet is based on information believed to be accurate as of the date of this sheet. However, no express or implied warranty is assumed for the correctness or completeness of the information and safety instructions given in this information sheet. Furthermore, no explicit or implied permission is given to use a patented invention without a license. Furthermore, the seller can not accept any liability for bodily injury or property damage resulting from misuse, neglect of recommended application procedures or the hazards underlying the product.