KBRCHEM

Material Safety Data Sheet

Revision Date: 2021-04-20

HUAGSHAN KBR A-164

A-164

HUANGSHAN KBR CHEM. Version: 3.0

Material Safety Data Sheet-compile in accordance with GB / T 16483(2008), GB / T 17519(2013)

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Name of substance/preparation
 Commercial product name: A-164
 Chemical name: Methyltrimethoxysilane
 1.2 Use of substance/preparation
- Industrial, crosslinker for silicone sealant Intermediate for siloxane manufacture
- 1.3 Company information

Manufacturer/distributor: HUANGSHAN KBR NEW MATERIAL TECHNOLGY CO Street/POB-No.:YUANYANGTAOHUADAO, TUNXI DISTRICT, Postal code/city/province/country: HUANGSHANCIT, ANHUI province,China Telephone: 0086-559-2335676 Safety emergency telephone: 0086-559-2335676 Fax: 0086-559-2331637 E-mail: <u>info@kbrchem.com</u> Website: <u>www.kbrchem.com</u> 1.4 Revision date 2021.04.20

KBRCHEM

Material Safety Data Sheet	Revision Date: 2021-04-20
----------------------------	---------------------------

2.1 GHS classification		
Physical hazard		
Flammable liquid	Category 2	
Health hazard		
Skin corrosion/irritation	Category 2	
Eye irritation/serious damage	Category 2B	
Environmental hazard	not classified	
2.2 GHS label element		

Pictogram	
Signal word Hazard statement(s)	Danger
H225	Highly flammable liquid and vapor
H315	Cause skin irritation
H320	Cause eye irritation

Precautionary statem	ent(s)
Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves and eye/ face protection
Reaction	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.
Disposal	
P501	Dispose of contents/container in accordance with local regulation.
2.2 Other effects	
Chronic: Not available data	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Revision Date: 2021-04-20

3.1 Chemical characteriza	ation (substance)		
	Ingredients Name	CAS No.	
Ν	lethyltrimethoxysilane	1185-55-3	
3.2 Hazardous ingredients	8		
Che	emical name	CAS No.	Concentration
Methylt	rimethoxysilane	1185-55-3	≥99.0%
Ме	thyl alcohol	67-56-1	≪1%

4. FIRST AID MEASURES

4.1 General information

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

4.2 After inhalation

Remove from exposure and move to fresh air immediately. If not breathing, giveartificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or othersymptoms appear.

4.3 After contact with the skin

Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

4.4 After contact with the eyes

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

4.5 After swallowing

Get medical attention.

4.6 Protection of first aid rescuer

Rescuer must wear protection gears, such as rubber gloves and air tightness goggles.

5. FIRE FIGHTING MEASURES

5.1 Flash point

Flash point is about 11 $^\circ\!\!\!\mathrm{C}$ (Test method: closed cup). Flammable liquid.

5.2 Suitable extinguishing media

Alcohol resistant foam, carbon dioxide, dry chemical. Use of high expansion foam (100:1) is recommended to cover flames, sand.

5.3 Special hazard

The poisoned smoke can be produced by decomposing when exposed to burning or high

temperature.

5.4 Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened

Revision Date: 2021-04-20

containers.

5.5 Special protective equipment for fire fighter.

The fire fighter should wear the personal protective gears when covering flame.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Avoid skin and eye contact. Avoid breathing vapor. Keep container closed. Do not take internally. 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.

6.3 Methods for cleaning up

Remove possible ignition sources. Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

7.1 Handling

Handling in well-ventilated place.Wear suitable preventive gear.Avoid inhalation of vapour or mist.Keep away from sources of heat/fire/hot surfaceNo smoking. Take measures to prevent the build up of electrostatic charge.

Use antiknock device.

Wash hands and face thoroughly after treatment Take fire protection measure.

7.2 Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must

Revision Date: 2021-04-20

be carefully resealed and kept upright to prevent leakage. Store in cool place. Moisture sensitive. Store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Maximum allowable concentration

Chemical name	CAS No.	Maximum allowable concentration
Methyltrimethoxysilane	1185-55-3	See Methyl alcohol comments.
		China: TWA 25 mg/m . STEL 50 mg/m . Can
		3 3
Methyl alcohol	67-56-1	be absorbed through the skin.
		ଭ୍ୟରୁନ୍ନନ୍ନ PEL (final rule): TWA 200 ppm, 260
		and ACGIH TLV-skin: TWA200ppm,
8.2 Engineering control		STEL 250 ppm.

8.2.1 Personal protection

Eye Protection: Under normal conditions, wear chemical safety glasses or gloves. If liquid contact is possible, add a full-face shield.

Hand protection: Chemical protective gloves should be worn.

Skin protection: Wash at mealtime and end of shift. Skin contact must be avoided by using impervious protective clothing (glove, aprons, boosted.) Use chemical protective gloves as a minimum and wash skin promptly upon any skin contact.

Hygiene Measures: Remove contaminated clothing immediately . Exercise good industrial hygiene practices. Wash after handing, especially before eating, ringing or smoking.

8.2.2 Environmental protection

Local Ventilation:		
General Ventilation:		

Recommended Recommended

9. PHYSICALAND CHEMICAL PROPERTIES

Physical state/form	: Liquid
Color	: Colorless
pH	: No data available
Boiling point	: 102℃ at 760mmHg
Melting point	: -78 ℃
Flash point	: 11℃(tag closed cup)
Ignition temperature	No data available
Oxidizing properties	: No
Upper explosion limit	: No data available

Revision Date: 2021-04-20

Lower explosion limit	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Density/relative density	: 0.95g/ml
Solubility	: React with water
Heat of combustion	: No data available
Viscosity(dynamic)	: No data available

10. STABILITYAND REACTIVITY

10.1 General information

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

- 10.2 Chemical stability: Moisture sensitive.
- 10.3 Reactive

Conditions to avoid: Incompatible materials, ignition sources, excess heat, exposure to moist air. Decomposition products: Water, moisture or humid air can cause hazardous vapors to form. Can react with strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

Hazardous polymerization: Hazardous polymerization may occur.

11. TOXICOLOGICAL INFORMATION

11.1 Route of Exposure: Inhalation, skin contact and accidental ingestion.

11.2 Signs and Symptoms of Overexposure:

Harmful if inhaled.

Maybe harmful if swallowed.

Cause serious eye damage

May cause an allergic skin reaction.

11.3 Acute Toxicity:

Chemical Name	CAS No.	LD50 (Oral)	LD50 (Dermal)	LC50 (Inhalation)
	4405 55 0	10.0 ml//(m (Dat)	> 9,500 mg/kg	> 42.1 mg/L(Rat; 6
Methyltrimethoxysilane 1185-55-3	12.3 mi/kg (Rat)	(Rabbit)	Hrs Vapor)	

Potential health hazard:

Eyes: Direct contact may cause temporary redness and discomfort.

Skin: Repeated skin contact may cause allergic skin reaction. Skin absorption may injure the following organ(s): eye - retina, central nervous system.

Ingestion: Ingestion may injure the following organ(s): eye - retina, central nervous system. Inhalation: Vapor may irritate nose and throat. Inhalation may injure the following organ(s): eye

Revision Date: 2021-04-20

-retina, central nervous system. Vapor overexposure may cause drowsiness.

11.4 Chronic Toxicity

The toxicity of organic sillicon compound is normally low.

11.5 Other Health Hazard Information: This material may liberate methanol upon exposure to moisture or humid air. Overexposure to methanol can result in blindness and nervous system effects.

12. ECOLOGICAL INFORMATION

12.1 Aquatic and Terrestrial Eco toxicity

Eco toxicity Effects:

Fish:no data availableWater louse and other aquatic invertebrates:no data availableAlgae:no data available

12.2 Persistence and Degradability Water:

This product hydrolyses in water or moist air, releasing methanol and organosilicons.

12.3 Bio accumulative Potential Bioaccumulation: No data available

12.4 Mobility in Soil: no data available

12.5 Additional Environmental Information: The environmental hazard can not be excluded even after special treatment and disposal.

13. DISPOSAL CONSIDERATIONS

Product disposal:	Dispose of in accordance with local regulations.
Packaging disposal:	Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Class	: 3			
Packing group				
UN-Number		93		
Description of	goods	:	flammable	liquid,
N.O.S.(Methyltrimetho	xysilane)			
Technical name	: M	ethyltrime	ethoxysilane	

15. REGULATORY INFORMATION

Provisions of the Regulations for the Safe Hanging of Chemicals in the Workplace (State Council of the PRC issued on 2011.2.16), particularly those relating to the safe use, production, storage and transportation of dangerous chemicals.

Revision Date: 2021-04-20

16. OTHER INFORMATION

Prepared by HUANGSHAN KBR CHEM CO.

(R) indicates Registered Trademark

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific materials designated herein and may not be valid for such materials used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.

-End of Material Safety Data Sheet-