SAFETY DATA SHEETS

Identification

1.

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

> Version: 1.0 Creation Date: Nov. 7, 2018 Revision Date: Nov. 7, 2018

1.1	GHS Product identifier			
	Product name	CFS-547, Methyldichlorosilane		
1.2	Other means of identification			
	Product number Other names	CFS-547 dichloro(methyl)silane; Silane,dichloromethyl; Methyl-dichlorsilan		
1.3	Recommended use of the chemical and restrictions on use			
	Identified uses Uses advised against	Only for Industrial Use no data available		
1.4	Supplier's details			
	Company Address Telephone Fax	Hubei Co-Formula Material Tech Co.,Ltd. C1420-1421, Longyang Avenue, Wuhan 430056, Hubei, China +86-27-84459282 +86-27-84459282		
1.5	Emergency phone number			
	Emergency phone number Service hours	+86-27-84459282 Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).		
2.	Hazard identification			
2.1	Classification of the substance or mixture			
	Flammable liquids, Category 2 Substances and mixtures, which in contact with water, emit flammable gases, Category 3 Acute toxicity - Oral, Category 3 Skin corrosion, Category 1A Acute toxicity - Inhalation, Category 3			
2.2	GHS label elements, in	ncluding precautionary statements		
	Pictogram(s)			
	Signal word	Danger		
	Hazard statement(s)	H225 Highly flammable liquid and vapour H261 In contact with water releases flammable gas H301 Toxic if swallowed H314 Causes severe skin burns and eye damage H331 Toxic if inhaled		
	Precautionary statement(s)	D210 Kasa server from host hat such as a long of the server		
	Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		

	P233 Keep container tightly closed.
	P240 Ground and bond container and receiving equipment.
	P241 Use explosion-proof [electrical/ventilating/lighting/] equipment.
	P242 Use non-sparking tools.
	P243 Take action to prevent static discharges.
	P280 Wear protective gloves/protective clothing/eye protection/face
	protection.
	P231+P232 Handle and store contents under inert gas/ Protect from
	moisture.
	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
Response	P271 Use only outdoors or in a well-ventilated area. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all
	contaminated clothing. Rinse skin with water [or shower].
	P370+P378 In case of fire: Use to extinguish.
	P301+P310 IF SWALLOWED: Immediately call a POISON
	CENTER/doctor/
	P321 Specific treatment (see on this label).
	P330 Rinse mouth.
	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce
	vomiting.
	P363 Wash contaminated clothing before reuse.
	P304+P340 IF INHALED: Remove person to fresh air and keep
	comfortable for breathing.
	P310 Immediately call a POISON CENTER/doctor/
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
	P311 Call a POISON CENTER/doctor/
Storage	P403+P235 Store in a well-ventilated place. Keep cool.
	P402+P404 Store in a dry place. Store in a closed container.
	P405 Store locked up.
	P403+P233 Store in a well-ventilated place. Keep container tightly
	closed.
Disposal	P501 Dispose of contents/container to an appropriate treatment and
	disposal facility in accordance with applicable laws and regulations, and
	product characteristics at time of disposal.

2.3 Other hazards which do not result in classification

no data available

3. Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Dichloro(methyl)silane	Methyldichlorosilane	75-54-7	200-877-1	> 99%

4. First-aid measures

4.1 Description of necessary first-aid measures

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

no data available

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

no data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. Handling and storage

7.1 **Precautions for safe handling**

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

9. **Physical and chemical properties**

Physical state	
Colour	Colorless
Odour	no data available
Melting point/ freezing point	-93°C
Boiling point or initial	41°C(lit.)
boiling point and boiling	
range	
Flammability	no data available
Lower and upper explosion	no data available
limit / flammability limit	
Flash point	-26
Auto-ignition temperature	471°F
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	In water: DECOMPOSES
Partition coefficient n-	no data available
octanol/water	
Vapour pressure	6.79 psi (20 °C)
Density and/or relative	1.105g/mLat 25°C(lit.)
density	
Relative vapour density	4 (vs air)
Particle characteristics	no data available

10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

11. Toxicological information

Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

12. Ecological information

12.1 Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

13. Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

14.1 UN Number

	ADR/RID: UN1242	IMDG: UN1242	IATA: UN1242
14.2	UN Proper Shipping Name		
	ADR/RID: METHYLDICHLOROSIL IMDG: METHYLDICHLOROSILAN IATA: METHYLDICHLOROSILAN	Έ	
14.3	Transport hazard class(es)		
	ADR/RID: 4.3	IMDG: 4.3	IATA: 4.3
14.4	Packing group, if applicable		
	ADR/RID: I	IMDG: I	IATA: I
14.5	Environmental hazards		
	ADR/RID: No	IMDG: No	IATA: No

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code no data available

15. Regulatory information

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

Chemical name	Common names and synonyms	CAS number	EC number
Dichloro(methyl)silane	Dichloro(methyl)silane Methyldichlorosilane 75-54-7		200-877-1
European Inventory (EINECS)	Not Listed.		
EC Inventory			Not Listed.

United States Toxic Substances Control Act (TSCA) Inventory	Not Listed.
China Catalog of Hazardous chemicals 2015	Not Listed.
New Zealand Inventory of Chemicals (NZIoC)	Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Not Listed.
Vietnam National Chemical Inventory	Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Not Listed.

16. Other information

Information on revision

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Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestisstoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.