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C R SCIENCE DEVELOPMENT CO., LTD

ADD: 1A-4-505 RUANJIANYUAN ROAD, HIGH-TECH INDUSTRIAL PARK, DALIAN, LIAONING, CHINA

TEL: +86-411-39034986

Chemical Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: Methyl Acetate; Dichloromethane。

Other Name: /

Recommended use of the chemical and restrictions on use: The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation. Solvent for cellulose acetate, plastics and fats. Component of degreasing agents, cleaning fluids and paint removers. A blowing agent in foams, as an aerosol propellant, and a cooling solvent.

Supplier's details: / SHANDONG FENGCHANG CHEMICALS COMPANY LIMITED

Emergency phone number: /0533-3153929

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Carcinogen Category 2.

GHS Label elements, including precautionary statements



Signal word: Warning.

Hazard statement(s): Suspected of causing cancer.

Precautionary statement(s):

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/container to in accordance with national regulations.

Other hazards which do not result in classification: /

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Dichloromethane	75-09-2	99.98%



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SECTION 4 FIRST AID MEASURES

Description of necessary first aid measures

If inhaled: If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested.

In case of skin contact: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

In case of eye contact: If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

If swallowed: REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor.

Most important symptoms and effects, both acute and delayed: /

Indication of immediate medical attention and special treatment needed: /

SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the chemical: Non-flammable liquid. However vapor will burn when in contact with high temperature flame. Ignition ceases on removal of flame. May form a flammable / explosive mixture in an oxygen enriched atmosphere

Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact by using protective equipment.

Environmental precautions: Prevent, by any means available, spillage from entering drains or water courses.

Methods and materials for containment and cleaning up: No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour. Contain or absorb spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Collect solid residues and seal in labelled drums for disposal.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Contains low boiling substance: Storage in sealed containers may result in pressure buildup causing violent rupture of containers not rated appropriately. Check for bulging containers. Vent periodically. Always release caps or seals slowly to ensure slow dissipation of vapours. DO NOT allow clothing wet with material to stay in contact with skin.

Conditions for safe storage, including any incompatibilities: Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Source	Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
China (Hong Kong) Occupational Exposure Limits	methylene chloride	50	174		

Appropriate engineering controls: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Personal protective equipment

Eye/face protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection: Wear chemical protective gloves, eg. PVC. Wear safety footwear or safety gumboots, eg. Rubber. Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	colourless clear liquid.
Odour	/
Odour Threshold	/
pH	/
Melting point/freezing point	-97°C.
Initial boiling point and boiling range	39~40°C.
Flash point	/
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	Upper explosion limit: 19 %(V). Lower explosion limit: 12 %(V).
Vapour pressure	30.55 kPa at 10°C.
Vapour density	2.93 (air=1) .
Relative density	1.33 (water=1) .
Water solubility	insoluble.
Partition coefficient: noctanol/water	Log Pow: 1.25.
Autoignition temperature	615 °C .
Decomposition temperature	/
Viscosity	/

SECTION 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: Product is considered stable.



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Possibility of hazardous reactions: Hazardous polymerisation will not occur.

Conditions to avoid: Presence of incompatible materials. .

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: /

SECTION 11 TOXICOLOGICAL INFORMATION

Acute health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Vapours may cause drowsiness and dizziness.

Ingestion: Accidental ingestion of the material may be harmful.

Skin: The material may cause severe inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.

Eyes: There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.

Chronic health effects: There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence from animal testing that exposure to this material may result in reduced fertility.

Numerical measures of toxicity(such as acute toxicity estimates): LC50 Inhalation - rat -52000 mg/m3, LD50 Intraperitoneal - rat - > 916 mg/kg.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity: /

Persistence and degradability: Water/Soil: LOW; Air: HIGH.

Bioaccumulative potential: LOW.

Mobility in soil: HIGH.

Other adverse effects: /

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

UN number: 1593.

UN proper shipping name: DICHLOROMETHANE.

Transport hazard class(es): 6.1.

Packaging group: III.

Environmental hazards: no

Special precautions for user: /

SECTION 15 REGULATORY INFORMATION

Regulations:

Dichloromethane (CAS: 75-09-2) is found on the following regulatory lists: "China (Hong Kong) Fire Service Department - List of Dangerous Goods", "China (Hong Kong) Occupational Exposure Limits",



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"China (Hong Kong) Pharmacy and Poisons Regulations - Substances to which Certain Restrictions with respect to the Sale, Supply, Labelling and Storage Apply", "China Classification and Labelling of Dangerous Chemical Substances", "China Dangerous Chemicals Names List", "China First Imported Class One Chemical List", "China Inventory of Existing Chemical Substances", "China List of Toxic Chemicals Severely Restricted for Import and Export (Chinese)", "China Occupational Exposure Limits for Hazardous Agents in the Workplace". This safety data sheet is in compliance with the following national standards: GB16483-2008, GB13690-2009, GB6944-2005, GB/T15098-2008, GB18218-2009, GB15258-2009, GB6944-2005, GB190-2009, GB191-2009, GB12268-2008, GA57-1993, GB/T 15098-2008, GBZ 2-2007 as well as the following national regulations: Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation, United Nations Regulations on the Transport of Dangerous Goods (UN RTDG)

SECTION 16 OTHER INFORMATION

References

“Model Regulations on the Transport of Dangerous Goods”

“The Globally Harmonized System of Classification and Labelling of Chemicals”

Form Date

11-June-2018

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.