Chem-Impex International Inc.

Tel: (630) 766-2112
E-mail: sales@chemimpex.com
Shipping and Correspondence:
935 Dillon Drive
Wood Dale, IL 60191 USA

Fax: (630) 766-2218
Web site: www.chemimpex.com
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191 USA

SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 47434

NAME: Chlorodimethylsilane

SYNONYMS: Dimethylchlorosilane

DMCS

24 HOUR EMERGENCY

TELEPHONE:

(800) 535-5053(USA)

352-323-3500 (INTERNATIONAL)

TO REQUEST AN MSDS: (800) 869-9290

CUSTOMER SERVICE:

(630) 766-2112

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS) FLAMMABLE LIQUIDS (CATEGORY 1), H224

CHEMICALS WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES (CATEGORY 3), H261

ACUTE TOXICITY, INHALATION (CATEGORY 3), H331 SKIN CORROSION (CATEGORY 1A), H314 SERIOUS EYE DAMAGE (CATEGORY 1), H318

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM

H331



TOXIC IF INHALED.

TIGHTLY CLOSED.



SIGNAL WORD DANGER

HAZARD STATEMENT(S)

H224 EXTREMELY FLAMMABLE LIQUID AND VAPOUR.
H261 IN CONTACT WITH WATER RELEASES FLAMMABLE GASES.
H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

PRECAUTIONARY STATEMENT(S)		
P210	KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES.	
	NO SMOKING.	
P231 + P232	HANDLE UNDER INERT GAS. PROTECT FROM MOISTURE.	
P233	KEEP CONTAINER TIGHTLY CLOSED.	
P240	GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.	
P241	USE EXPLOSION-PROOF ELECTRICAL/ VENTILATING/ LIGHTING	
	EQUIPMENT.	
P242	USE ONLY NON-SPARKING TOOLS.	
P243	TAKE PRECAUTIONARY MEASURES AGAINST STATIC	
	DISCHARGE.	
P261	AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPORS/ SPRAY.	
P264	WASH SKIN THOROUGHLY AFTER HANDLING.	
P271	USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.	
P280	WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE	
	PROTECTION/ FACE PROTECTION.	
P301 + P330 + P331	IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING	
P303 + P361 + P353 IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL		
	CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.	
P304 + P340 + P310	IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP	
	COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON	
	CENTER/DOCTOR.	
P305 + P351 + P338 +	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL	
P310	MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO	
	DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON	
	CENTER/DOCTOR.	
P363	WASH CONTAMINATED CLOTHING BEFORE REUSE.	
P370 + P378	IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR ALCOHOL-	
	RESISTANT FOAM TO EXTINGUISH	
P402 + P404	STORE IN A DRY PLACE. STORE IN A CLOSED CONTAINER.	
P403 + P233	STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER	

P403 + P235STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

P405 STORE LOCKED UP.

P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE

DISPOSAL PLANT.

HAZARDS NOT REACTS VIOLENTLY WITH WATER.

OTHERWISE

CORROSIVE TO THE RESPIRATORY TRACT.

CLASSIFIED (HNOC) OR NOT COVERED

BY GHS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF: C₂H₇ClSi

MW: 94.61

CAS-NO. 1066-35-9

PURITY: \geq 95% (GC)

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
Chlorodimethylsilane		
	FLAM. LIQ. 1; 3; ACUTE TOX. 3;	<= 100 %
	SKIN CORR. 1A; EYE DAM. 1;	
	H224, H261, H331, H314, H318	

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE FIRST AIDERS NEED TO PROTECT THEMSELVES. SHOW

THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN

ATTENDANCE.

IF INHALED AFTER INHALATION: FRESH AIR. IMMEDIATELY CALL IN

> PHYSICIAN. IF BREATHING STOPS: IMMEDIATELY APPLY ARTIFICIAL RESPIRATION, IF NECESSARY ALSO

OXYGEN.

IN CASE OF SKIN

IN CASE OF SKIN CONTACT: TAKE OFF IMMEDIATELY ALL **CONTACT** CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/

SHOWER. CALL A PHYSICIAN IMMEDIATELY.

IN CASE OF EYE CONTACT

AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER. IMMEDIATELY CALL IN OPHTHALMOLOGIST.

REMOVE CONTACT LENSES.

IF SWALLOWED

AFTER SWALLOWING: MAKE VICTIM DRINK WATER (TWO

GLASSES AT MOST), AVOID VOMITING (RISK OF

PERFORATION). CALL A PHYSICIAN IMMEDIATELY. DO NOT

ATTEMPT TO NEUTRALISE.

MOST IMPORTANT SYMPTOMS AND

THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2)

AND/OR IN SECTION 11.

EFFECTS, BOTH ACUTE AND DELAYED

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NO DATA AVAILABLE

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA CARBON DIOXIDE (CO2) DRY POWDER

UNSUITABLE EXTINGUISHING MEDIA

FOAM WATER

SPECIAL HAZARDS

CARBON OXIDES

ARISING FROM THE SUBSTANCE OR MIXTURE HYDROGEN CHLORIDE GAS

SILICON OXIDES

COMBUSTIBLE.

PAY ATTENTION TO FLASHBACK.

VAPORS ARE HEAVIER THAN AIR AND MAY SPREAD

ALONG FLOORS.

MAY NOT GET IN TOUCH WITH: WATER

DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR

VAPOURS POSSIBLE IN THE EVENT OF FIRE.

FORMS EXPLOSIVE MIXTURES WITH AIR AT AMBIENT

TEMPERATURES.

ADVICE FOR **FIREFIGHTERS** STAY IN DANGER AREA ONLY WITH SELF-CONTAINED BREATHING APPARATUS. PREVENT SKIN CONTACT BY KEEPING A SAFE DISTANCE OR BY WEARING SUITABLE

PROTECTIVE CLOTHING.

FURTHER INFORMATION REMOVE CONTAINER FROM DANGER ZONE AND COOL

WITH WATER. SUPPRESS (KNOCK DOWN)

GASES/VAPORS/MISTS WITH A WATER SPRAY JET. PREVENT FIRE EXTINGUISHING WATER FROM

CONTAMINATING SURFACE WATER OR THE GROUND

WATER SYSTEM.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL
PRECAUTIONS,
PROTECTIVE EQUIPMEN

PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES ADVICE FOR NON-EMERGENCY PERSONNEL: DO NOT BREATHE VAPORS, AEROSOLS. AVOID SUBSTANCE

CONTACT. ENSURE ADEQUATE VENTILATION. KEEP AWAY FROM HEAT AND SOURCES OF IGNITION.

EVACUATE THE DANGER AREA, OBSERVE EMERGENCY

PROCEDURES, CONSULT AN EXPERT.

FOR PERSONAL PROTECTION SEE SECTION 8.

ENVIRONMENTAL PRECAUTIONS

DO NOT LET PRODUCT ENTER DRAINS. RISK OF

EXPLOSION.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP $COVER\ DRAINS.\ COLLECT,\ BIND,\ AND\ PUMP\ OFF\ SPILLS.$

OBSERVE POSSIBLE MATERIAL RESTRICTIONS (SEE SECTIONS 7 AND 10). DISPOSE OF PROPERLY. CLEAN

UP AFFECTED AREA.

REFERENCE TO OTHER SECTIONS

FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

WORK UNDER HOOD. DO NOT INHALE

SUBSTANCE/MIXTURE. AVOID GENERATION OF

VAPOURS/AEROSOLS.

KEEP WORKPLACE DRY. DO NOT ALLOW PRODUCT TO

COME INTO CONTACT WITH WATER.

KEEP AWAY FROM OPEN FLAMES, HOT SURFACES AND

SOURCES OF IGNITION.TAKE PRECAUTIONARY

MEASURES AGAINST STATIC DISCHARGE.

IMMEDIATELY CHANGE CONTAMINATED CLOTHING. APPLY PREVENTIVE SKIN PROTECTION. WASH HANDS AND FACE AFTER WORKING WITH SUBSTANCE.

FOR PRECAUTIONS SEE SECTION 2.2.

CONDITIONS FOR SAFE STORAGE, INCLUDING

TIGHTLY CLOSED. KEEP AWAY FROM HEAT AND SOURCES

OF IGNITION. KEEP LOCKED UP OR IN AN AREA

ANY INCOMPATIBILITIES ACCESSIBLE ONLY TO QUALIFIED OR AUTHORIZED

PERSONS.

NEVER ALLOW PRODUCT TO GET IN CONTACT WITH

WATER DURING STORAGE.

HANDLE AND STORE UNDER INERT GAS. MOISTURE

SENSITIVE.

STORAGE CLASS (TRGS 510): 4.3: HAZARDOUS MATERIALS, WHICH SET FREE FLAMMABLE GASES UPON CONTACT

WITH WATER

Store at 2 - 8 °C, under inert gas

SPECIFIC END USE(S) APART FROM THE USES MENTIONED IN SECTION 1.2 NO

OTHER SPECIFIC USES ARE STIPULATED.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

EXPOSURE CONTROLS

APPROPRIATE IMMEDIATELY CHANGE CONTAMINATED CLOTHING. APPLY ENGINEERING PREVENTIVE SKIN PROTECTION. WASH HANDS AND FACE

CONTROLS AFTER WORKING WITH SUBSTANCE.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION USE EQUIPMENT FOR EYE PROTECTION TESTED AND

APPROVED UNDER APPROPRIATE GOVERNMENT

STANDARDS SUCH AS NIOSH (US) OR EN 166(EU). TIGHTLY

FITTING SAFETY GOGGLES

SKIN PROTECTION HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED

PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVE"S OUTER SURFACE) TO AVOID

SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY

PRACTICES. WASH AND DRY HANDS.

BODY PROTECTION FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING.

RESPIRATORY REQUIRED WHEN VAPOURS/AEROSOLS ARE GENERATED. PROTECTION

OUR RECOMMENDATIONS ON FILTERING RESPIRATORY

PROTECTION ARE BASED ON THE FOLLOWING STANDARDS: DIN EN 143, DIN 14387 AND OTHER

ACCOMPANYING STANDARDS RELATING TO THE USED

RESPIRATORY PROTECTION SYSTEM.

CONTROL OF

ENVIRONMENTAL

EXPOSURE

DO NOT LET PRODUCT ENTER DRAINS. RISK OF

EXPLOSION.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Almost clear, colorless liquid APPEARANCE NO DATA AVAILABLE ODOUR ODOUR THRESHOLD NO DATA AVAILABLE PH NO DATA AVAILABLE

MELTING -111 °C

POINT/FREEZING POINT

INITIAL BOILING POINT 34 - 36 °C

AND BOILING RANGE

FLASH POINT -20 °C

EVAPOURATION RATE NO DATA AVAILABLE FLAMMABILITY (SOLID, NO DATA AVAILABLE

GAS)

UPPER/LOWER UPPER EXPLOSION LIMIT: 20 %(V) LOWER EXPLOSION LIMIT: 3 %(V) FLAMMABILITY OR

EXPLOSIVE LIMITS

VAPOUR PRESSURE 590.19 HPA AT 20 C 1,924.5 HPA AT 55 C

VAPOUR DENSITY 3.27 - (AIR = 1.0)

RELATIVE DENSITY 0.87

NO DATA AVAILABLE WATER SOLUBILITY PARTITION COEFFICIENT: NO DATA AVAILABLE

N- OCTANOL/WATER

AUTO-IGNITION 250 C AT 1013.0 HPA

TEMPERATURE

NO DATA AVAILABLE DECOMPOSITION

TEMPERATURE

VISCOSITY NO DATA AVAILABLE **EXPLOSIVE PROPERTIES** NO DATA AVAILABLE OXIDIZING PROPERTIES NO DATA AVAILABLE

OTHER SAFETY INFORMATION

RELATIVE VAPOR 3.27 - (AIR = 1.0)

DENSITY

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY VAPORS MAY FORM EXPLOSIVE MIXTURE WITH AIR.

CHEMICAL STABILITY SENSITIVE TO MOISTURE

POSSIBILITY OF VIOLENT REACTIONS POSSIBLE WITH:

HAZARDOUS REACTIONS WATER

ALCOHOLS AMINES ALKALINES ACIDS

CONDITIONS TO AVOID WARMING.

MOISTURE.

INCOMPATIBLE NO DATA AVAILABLE

MATERIALS

HAZARDOUS

DECOMPOSITION PRODUCTS

IN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY ORAL: NO DATA AVAILABLE

LC50 INHALATION - RAT - MALE AND FEMALE - 1 H - 8.66

MG/L - VAPOR

(OECD TEST GUIDELINE 403)

DERMAL: NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN NO DATA AVAILABLE

CORROSION/IRRITATION

SERIOUS EYE NO DATA AVAILABLE

DAMAGE/EYE IRRITATION

RESPIRATORY OR SKIN

SENSITISATION

NO DATA AVAILABLE

GERM CELL TEST TYPE: AMES TEST

MUTAGENICITY TEST SYSTEM: S. TYPHIMURIUM

METABOLIC ACTIVATION: WITH AND WITHOUT

METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 471

RESULT: NEGATIVE

CARCINOGENICITY

IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS

GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS

PROBABLE, POSSIBLE OR CONFIRMED HUMAN

CARCINOGEN BY IARC.

NTP: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS

GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A

KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

OSHA: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS

GREATER THAN OR EQUAL TO 0.1% IS ON OSHA S LIST OF

REGULATED CARCINOGENS.

REPRODUCTIVE TOXICITY NO DATA AVAILABLE

SPECIFIC TARGET ORGAN

TOXICITY - SINGLE

EXPOSURE

NO DATA AVAILABLE

SPECIFIC TARGET ORGAN

TOXICITY - REPEATED

EXPOSURE

NO DATA AVAILABLE

ASPIRATION HAZARD NO DATA AVAILABLE

ADDITIONAL INFORMATION

RTECS: NOT AVAILABLE

MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES, AND SKIN, COUGH, SHORTNESS OF BREATH,

HEADACHE, NAUSEA

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY NO DATA AVAILABLE

PERSISTENCE AND DEGRADABILITY

NO DATA AVAILABLE

BIOACCUMULATIVE

POTENTIAL

NO DATA AVAILABLE

MOBILITY IN SOIL NO DATA AVAILABLE

RESULTS OF PBT AND VPVB PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL

ASSESSMENT SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED.

OTHER ADVERSE EFFECTS NO DATA AVAILABLE

DISPOSAL CONSIDERATIONS SECTION 13.

WASTE TREATMENT METHODS

PRODUCT WASTE MATERIAL MUST BE DISPOSED OF IN

ACCORDANCE WITH THE NATIONAL AND LOCAL

REGULATIONS.

LEAVE CHEMICALS IN ORIGINAL CONTAINERS. NO MIXING WITH OTHER WASTE. HANDLE UNCLEANED

CONTAINERS LIKE THE PRODUCT ITSELF.

CONTAMINATED **PACKAGING**

DISPOSE OF AS UNUSED PRODUCT.

SECTION 14. TRANSPORT INFORMATION

DOT (US)

PROPER SHIPPING NAME: CHLOROSILANES, WATER-REACTIVE, FLAMMABLE,

CORROSIVE, N.O.S. (Chlorodimethylsilane)

UN NUMBER: 2988 CLASS: 4.3 (3, 8)

PACKING GROUP:

REPORTABLE QUANTITY

(RQ):

POISON INHALATION NO

HAZARD:

IMDG

PROPER SHIPPING NAME: CHLOROSILANES, WATER-REACTIVE, FLAMMABLE,

CORROSIVE, N.O.S. (Chlorodimethylsilane)

UN NUMBER: 2988 CLASS: 4.3(3,8)

PACKING GROUP:

F-G, S-N EMS-NO:

CHLOROSILANES, WATER-REACTIVE, FLAMMABLE, PROPER SHIPPING NAME:

CORROSIVE, N.O.S. (Chlorodimethylsilane)

UN NUMBER: 2988 CLASS: 4.3 (3, 8)

PACKING GROUP:

IATA PASSENGER NOT PERMITTED FOR TRANSPORT

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS

WITH A SECTION 302 EHS TPQ.

SARA 313 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL

COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED

THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

SARA 311/312 HAZARDS FIRE HAZARD, REACTIVITY HAZARD, ACUTE HEALTH

HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

H224 EXTREMELY FLAMMABLE LIOUID AND VAPOUR.

H261 IN CONTACT WITH WATER RELEASES FLAMMABLE GASES.

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

H331 TOXIC IF INHALED.

MSDS LEGEND

MW: MOLECULAR WEIGHT MF: MOLECULAR FORMULA

VOC: VOLATILE ORGANIC COMPOUNDS

ACGIH: AMERICAN CONFERENCE OF GOVERNMENENTAL INDUSTRIAL

HYGINISTS

CAS: CHEMICAL ABSTRACTS SERIVE REGISTRY NUMBER
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

PEL: PERMISSIBLE EXPOSURE LIMIT (OSHA)
TLV: THRESHOLD LIMIT VALUE (ACGIH)

IMPORTANT:

THE INFORMATION ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO EVENT SHALL CII BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL,

INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF **CII** HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

VERSION : 3.2 REVISION DATE : 02/27/2023