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 #:	40579
NAME:	Diphenyldichlorogermane
SYNONYMS:	Diphenylgermanium dichloride
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) ACUTE TOXICITY, ORAL (CATEGORY 4), H302 ACUTE TOXICITY, INHALATION (CATEGORY 4), H332 ACUTE TOXICITY, DERMAL (CATEGORY 4), H312 SKIN IRRITATION (CATEGORY 2), H315 EYE IRRITATION (CATEGORY 2A), H319 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 3), RESPIRATORY SYSTEM, H335 FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM



SIGNAL WORD	WARNING

HAZARD STATEMENT(S)

H302 + H312 + H332	HARMFUL IF SWALLOWED, IN CONTACT WITH SKIN OR IF
	INHALED.
H315	CAUSES SKIN IRRITATION.
H319	CAUSES SERIOUS EYE IRRITATION.
H335	MAY CAUSE RESPIRATORY IRRITATION.

PRECAUTIONARY STATEMENT(S)

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P261	AVOID BREATHING DUST/ FUME/ GAS/ MIST/ VAPOURS/
	SPRAY.
P264	WASH SKIN THOROUGHLY AFTER HANDLING.
P270	DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
P271	USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
P280	WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE
	PROTECTION/ FACE PROTECTION.
P301 + P312 + P330	IF SWALLOWED: CALL A POISON CENTER/DOCTOR IF YOU
	FEEL UNWELL. RINSE MOUTH.
P302 + P352 + P312	IF ON SKIN: WASH WITH PLENTY OF WATER. CALL A POISON
	CENTER/DOCTOR IF YOU FEEL UNWELL.
P304 + P340 + P312	IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP
	COMFORTABLE FOR BREATHING. CALL A POISON
	CENTER/DOCTOR IF YOU FEEL UNWELL.
P305 + P351 + P338	IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL
	MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND
	EASY TO DO. CONTINUE RINSING.
P332 + P313	IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/
	ATTENTION.
P337 + P313	IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/
	ATTENTION.
P362	TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE
	REUSE.
P403 + P233	STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER
	TIGHTLY CLOSED.
P405	STORE LOCKED UP.
P501	DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED
	WASTE DISPOSAL PLANT.
HAZARDS NOT	NONE
OTHEDWISE	

OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:	$\mathrm{C}_{12}\mathrm{H}_{10}\mathrm{Cl}_{2}\mathrm{Ge}$
MW:	297.74
CAS-NO.	1613-66-7
PURITY:	\geq 95% (GC)

HAZARDOUS COMPONENTS

COMPONENT	CLASSIFICATION	CONCENTRATION
Diphenyldichlorogerman	ie	
	ACUTE TOX. 4; SKIN IRRIT. 2; EYE IRRIT. 2A; STOT SE 3; H302, H332, H312, H315, H319,	<= 100 %
	H335	

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

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.MOVE OUT OF DANGEROUS AREA.
IF INHALED	IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A

- IN CASE OF SKINWASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT ACONTACTPHYSICIAN.
- IN CASE OF EYERINSE THOROUGHLY WITH PLENTY OF WATER FOR ATCONTACTLEAST 15 MINUTES AND CONSULT A PHYSICIAN.

PHYSICIAN.

IF SWALLOWED NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

MOST IMPORTANTTHE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTSSYMPTOMS ANDARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2)EFFECTS, BOTHAND/OR IN SECTION 11.ACUTE AND DELAYEDImage: Control of the sector of th

INDICATION OF ANY NO DATA AVAILABLE IMMEDIATE MEDICAL

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

SUITABLE	USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY
EXTINGUISHING MEDIA	CHEMICAL OR CARBON DIOXIDE.
SPECIAL HAZARDS	CARBON OXIDES
ARISING FROM THE	HYDROGEN CHLORIDE GAS
SUBSTANCE OR MIXTURE	GERMANIUM OXIDES
ADVICE FOR FIREFIGHTERS	WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.
FURTHER INFORMATION	NO DATA AVAILABLE

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	USE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPORS, MIST OR GAS. ENSURE ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. FOR PERSONAL PROTECTION SEE SECTION 8.
ENVIRONMENTAL PRECAUTIONS	DO NOT LET PRODUCT ENTER DRAINS.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	SOAK UP WITH INERT ABSORBENT MATERIAL AND DISPOSE OF AS HAZARDOUS WASTE. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.
REFERENCE TO OTHER SECTIONS	FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFEAVOID CONTACT WITH SKIN AND EYES. AVOID**HANDLING**INHALATION OF VAPOR OR MIST.

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY. FOR PRECAUTIONS SEE SECTION 2.2.

CONDITIONS FOR SAFE KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND **STORAGE, INCLUDING** WELL-VENTILATED PLACE. **ANY INCOMPATIBILITIES**

Store at RT

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	HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE
ENGINEERING	AND SAFETY PRACTICE. WASH HANDS BEFORE BREAKS AND AT
CONTROLS	THE END OF WORKDAY.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION	FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).
SKIN	HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR
PROTECTION	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	COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE
PROTECTION	OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING
	TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS
	SUBSTANCE AT THE SPECIFIC WORKPLACE.

RESPIRATORY PROTECTION	WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULLFACE RESPIRATOR
IROTLETION	WITH MULTI-PURPOSE COMBINATION (US) OR TYPE ABEK (EN
	14387) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE
	MEANS OF PROTECTION, USE A FULL-FACE SUPPLIED AIR
	RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT
	STANDARDS SUCH AS NIOSH (US) OR CEN (EU).
CONTROL OF ENVIRONMENTAL EXPOSURE	DO NOT LET PRODUCT ENTER DRAINS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC H	PHYSICAL AND CHEMICAL PRO
APPEARANCE	Colorless clear liquid
ODOUR	NO DATA AVAILABLE
ODOUR THRESHOLD	NO DATA AVAILABLE
РН	NO DATA AVAILABLE
MELTING	9 °C (Lit.)
POINT/FREEZING POINT	
INITIAL BOILING POINT	100 °C / 0.005 mmHg (Lit.)
AND BOILING RANGE	
FLASH POINT	> 110 °C
EVAPORATION RATE	NO DATA AVAILABLE
FLAMMABILITY (SOLID,	NO DATA AVAILABLE
GAS)	
UPPER/LOWER	NO DATA AVAILABLE
FLAMMABILITY OR	
EXPLOSIVE LIMITS	
VAPOUR PRESSURE	NO DATA AVAILABLE
VAPOUR DENSITY	NO DATA AVAILABLE
RELATIVE DENSITY	1.43 g/mL
WATER SOLUBILITY	NO DATA AVAILABLE
PARTITION COEFFICIENT:	NO DATA AVAILABLE
N- OCTANOL/WATER	
AUTO-IGNITION	NO DATA AVAILABLE
TEMPERATURE	
DECOMPOSITION	NO DATA AVAILABLE
TEMPERATURE	
VISCOSITY	NO DATA AVAILABLE
EXPLOSIVE PROPERTIES	NO DATA AVAILABLE
OXIDIZING PROPERTIES	NO DATA AVAILABLE
OTHER SAFETY	NO DATA AVAILABLE
INFORMATION	

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY	NO DATA AVAILABLE
CHEMICAL STABILITY	STABLE UNDER RECOMMENDED STORAGE CONDITIONS.
POSSIBILITY OF HAZARDOUS REACTIONS	NO DATA AVAILABLE
CONDITIONS TO AVOID	NO DATA AVAILABLE
INCOMPATIBLE MATERIALS	STRONG OXIDIZING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS	IN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY NO DATA AVAILABLE

LC50 INHALATION - 4 H - 11 MG/L (ACUTE TOXICITY ESTIMATE)

LD50 DERMAL - 1,100 MG/KG

NO DATA AVAILABLE

NO DATA AVAILABLE

SKIN CORROSION/IRRITATION

SERIOUS EYE NO DATA AVAILABLE DAMAGE/EYE IRRITATION

RESPIRATORY OR SKIN NO DATA AVAILABLE **SENSITISATION**

GERM CELL NO DATA AVAILABLE MUTAGENICITY

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: OSHA:	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. 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	INHALATION - MAY CAUSE RESPIRATORY IRRITATION.
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	NO DATA AVAILABLE
ASPIRATION HAZARD	NO DATA AVAILABLE
ADDITIONAL INFORMATION	RTECS: NOT AVAILABLE
INFORMATION	TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12. ECOLOGICAL INFORMATION

ΤΟΧΙCITY	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 ASSESSMENT	PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED.
OTHER ADVERSE EFFECTS	NO DATA AVAILABLE

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT	OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.
CONTAMINATED PACKAGING	DISPOSE OF AS UNUSED PRODUCT.

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane)UN NUMBER:3265CLASS:8PACKING GROUP:IIREPORTABLE QUANTITY (RQ):NOPOISON INHALATION HAZARD:NOIMDGVORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane)UN NUMBER:3265CLASS:8PACKING GROUP:IIEMS-NO:F-A, S-B
UN NUMBER:3265CLASS:8PACKING GROUP:IIREPORTABLE QUANTITY (RQ):NOPOISON INHALATION HAZARD:NOIMDGCORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane)UN NUMBER:3265CLASS:8PACKING GROUP:II
PACKING GROUP: II REPORTABLE QUANTITY (RQ): POISON INHALATION NO HAZARD: IMDG PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane) UN NUMBER: 3265 CLASS: 8 PACKING GROUP: II
REPORTABLE QUANTITY (RQ): POISON INHALATION HAZARD:NOIMDGNOPROPER SHIPPING NAME:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane)UN NUMBER:3265CLASS:8PACKING GROUP:II
(RQ): POISON INHALATION HAZARD:NOIMDGCORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane)UN NUMBER:3265CLASS:8PACKING GROUP:II
HAZARD: IMDG PROPER SHIPPING NAME: UN NUMBER: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane) UN NUMBER: S265 CLASS: PACKING GROUP: II
IMDGPROPER SHIPPING NAME:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane)UN NUMBER:3265CLASS:8PACKING GROUP:II
PROPER SHIPPING NAME:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane)UN NUMBER:3265CLASS:8PACKING GROUP:II
(Diphenyldichlorogermane)UN NUMBER:3265CLASS:8PACKING GROUP:II
UN NUMBER:3265CLASS:8PACKING GROUP:II
PACKING GROUP: II
EMS-NO: F-A, S-B
IATA
PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Diphenyldichlorogermane)
UN NUMBER: 3265
CLASS: 8
PACKING GROUP: II

SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS	NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE
	REPORTING REQUIREMENTS OF SARA TITLE III, SECTION
	302.

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 ACUTE HEALTH HAZARD

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

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

	CAS-NO.
Diphenyldichlorogermane	1613-66-7

REVISION DATE

NEW JERSEY RIGHT TO KNOW COMPONENTS

CAS-NO. Diphenyldichlorogermane 1613-66-7

REVISION DATE

SECTION 16. **OTHER INFORMATION**

FULL TEXT OF H-S	TATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.	
H302 + H312 + H332	HARMFUL IF SWALLOWED, IN CONTACT WITH SKIN OR IF	
	INHALED.	
H315	CAUSES SKIN IRRITATION.	
H319	CAUSES SERIOUS EYE IRRITATION.	
H335	MAY CAUSE RESPIRATORY IRRITATION.	
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:		
	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	
	S USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO	
	ITABILITY OF THE INFORMATION FOR THEIR PARTICULAR	
	YENT SHALL CII BE LIABLE FOR ANY CLAIMS, LOSSES, OR	
	HIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, EQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING,	
	EN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.	
EVEN IF UITHAS DEI	ADVISED OF THE FOSSIBILIT FOF SUCH DAWAGES.	

VERSION:3.1

REVISION DATE: 01/27/2017