# 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 #: 47563

NAME: Ethylbenzene

SYNONYMS:

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 2), H225 ACUTE TOXICITY, INHALATION (CATEGORY 4), H332 CARCINOGENICITY (CATEGORY 2), H351

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (CATEGORY 2), HEARING ORGANS, H373

ASPIRATION HAZARD (CATEGORY 1), H304

SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 2), H401 LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 3), H412

# GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM

SIGNAL WORD DANGER

# **HAZARD STATEMENT(S)**

H225 HIGHLY FLAMMABLE LIQUID AND VAPOR.

H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

H332 HARMFUL IF INHALED.

H351 SUSPECTED OF CAUSING CANCER.

H373 MAY CAUSE DAMAGE TO ORGANS (HEARING ORGANS)

THROUGH PROLONGED OR REPEATED EXPOSURE.

H401 TOXIC TO AQUATIC LIFE.

H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

#### PRECAUTIONARY STATEMENT(S)

P201	OBTAIN SPECIAL	INSTRUCTIONS BEFORE USE.	

P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE

BEEN READ AND UNDERSTOOD.

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT

SURFACES. - NO SMOKING.

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.

P260 DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/

SPRAY.

P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

P273 AVOID RELEASE TO THE ENVIRONMENT.

P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE

PROTECTION/FACE PROTECTION.

P301 + P310 IF SWALLOWED: IMMEDIATELY CALL A POISON

CENTER/DOCTOR.

P303 + P361 + P353 IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL

CONTAMINATED CLOTHING. RINSE SKIN WITH

WATER/SHOWER.

P304 + P340 + P312 IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP

COMFORTABLE FOR BREATHING. CALL A POISON

CENTER/DOCTOR IF YOU FEEL UNWELL.

P308 + P313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/

ATTENTION.

P331 DO NOT INDUCE VOMITING.

P370 + P378 IN CASE OF FIRE: USE DRY SAND, DRY CHEMICAL OR

ALCOHOL-RESISTANT FOAM TO EXTINGUISH.

P403 + P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

P405 STORE LOCKED UP.

P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED

WASTE DISPOSAL PLANT.

HAZARDS NOT NONE OTHERWISE

CLASSIFIED (HNOC) OR NOT COVERED

BY GHS

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:  $C_8H_{10}$ 

MW: 106.17

CAS-NO. 100-41-4

PURITY:  $\geq 99\%$  (GC)

# **HAZARDOUS COMPONENTS**

COMPONENT	CLASSIFICATION	CONCENTRATION
Ethylbenzene		
	FLAM. LIQ. 2; ACUTE TOX. 4;	<= 100 %
	CARC. 2; STOT RE 2; ASP.	
	TOX. 1; AQUATIC ACUTE 2;	
	AQUATIC CHRONIC 3; H225,	
	H332, H351, H373, H304, H401,	
	H412	

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** MOVE OUT OF DANGEROUS AREA.

**IF INHALED** IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF

NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

IN CASE OF SKIN

**CONTACT** 

WASH OFF WITH SOAP AND PLENTY OF WATER.

IN CASE OF EYE

CONTACT

FLUSH EYES WITH WATER AS A PRECAUTION.

**IF SWALLOWED** NEVER GIVE ANYTHING BY MOUTH TO AN

UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER.

MOST IMPORTANT SYMPTOMS AND

EFFECTS, BOTH ACUTE AND DELAYED

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

SECTION 2.2) AND/OR IN SECTION 11.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NO DATA AVAILABLE

#### SECTION 5. FIRE AND EXPLOSION DATA

**EXTINGUISHING MEDIA** 

**SUITABLE** SUITABLE EXTINGUISHING MEDIA

**EXTINGUISHING MEDIA** WATER CARBON DIOXIDE (CO2) FOAM DRY POWDER

UNSUITABLE EXTINGUISHING MEDIA

FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF

EXTINGUISHING AGENTS ARE GIVEN.

SPECIAL HAZARDS
ARISING FROM THE

SUBSTANCE OR MIXTURE

CARBON OXIDES

COMBUSTIBLE LIQUID.

ADVICE FOR FIREFIGHTERS

NO DATA AVAILABLE

**FURTHER INFORMATION** 

NO DATA AVAILABLE

# SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL
PRECAUTIONS,
PROTECTIVE
EQUIPMENT AND
EMERGENCY
PROCEDURES

FOR PERSONAL PROTECTION SEE SECTION 8.

ENVIRONMENTAL PRECAUTIONS

NO DATA AVAILABLE

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP CONTAIN SPILLAGE, SOAK UP WITH NON-COMBUSTIBLE ABSORBENT MATERIAL, (E.G. SAND, EARTH, DIATOMACEOUS EARTH, VERMICULITE) AND

TRANSFER TO A CONTAINER FOR DISPOSAL

ACCORDING TO LOCAL / NATIONAL REGULATIONS (SEE

SECTION 13).

REFERENCE TO OTHER SECTIONS

FOR DISPOSAL SEE SECTION 13.

### SECTION 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE** FOR PRECAUTIONS SEE SECTION 2.2.

HANDLING

**CONDITIONS FOR SAFE** HYGROSCOPIC **STORAGE, INCLUDING** 

ANY INCOMPATIBILITIES STORAGE CLASS (TRGS 510): 3: FLAMMABLE LIQUIDS

Store at 2 - 8 °C

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

COMPONENT	CAS-NO.	VALUE	CONTROL	BASIS
			PARAMETERS	
Ethylbenzene	100-41-4	TWA	100 PPM	USA. NIOSH
			435 MG/M3	RECOMMENDED
				EXPOSURE LIMITS
		ST	125 PPM	USA. NIOSH
			545 MG/M3	RECOMMENDED
				EXPOSURE LIMITS
		TWA	100 PPM	USA. OCCUPATIONAL
			435 MG/M3	EXPOSURE
				LIMITS (OSHA) - TABLE Z-1
				LIMITS FOR AIR
				CONTAMINANTS
		STEL	30 PPM	CALIFORNIA PERMISSIBLE
			130 MG/M3	EXPOSURE
				LIMITS FOR CHEMICAL
				CONTAMINANTS

PEL	5 PPM	CALIFORNIA PERMISSIBLE
	22 MG/M3	EXPOSURE
		LIMITS FOR CHEMICAL
		CONTAMINANTS

# BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS

COMPONENT	CAS-NO.	PARAMETERS	VALUE	BIOLOGICAL	BASIS
				SPECIMEN	
Ethylbenzene	100-41-4	SUM OF	0.15G/G	URINE	ACGIH -
		MANDELIC	CREATININE		BIOLOGICAL
		ACID AND			EXPOSURE
		PHENYL			INDICES
		GLYOXYLIC			(BEI)
		ACID			
	REMARKS	END OF SHIFT	(AS SOON AS	POSSIBLE AFT	ER EXPOSURE
		CEASES)			

#### **EXPOSURE CONTROLS**

APPROPRIATE

GENERAL INDUSTRIAL HYGIENE PRACTICE.

ENGINEERING CONTROLS

# PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE USE EQUIPMENT FOR EYE PROTECTION TESTED AND

**PROTECTION** APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS

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

**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** IMPERVIOUS CLOTHING, THE TYPE OF PROTECTIVE

EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS

SUBSTANCE AT THE SPECIFIC WORKPLACE.

**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

PREVENT PRODUCT FROM ENTERING DRAINS.

**EXPOSURE** 

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Colorless clear liquid

ODOUR AROMATIC

ODOUR THRESHOLD NO DATA AVAILABLE NO DATA AVAILABLE

MELTING

POINT/FREEZING POINT

INITIAL BOILING POINT 136 °C

AND BOILING RANGE

FLASH POINT 22 °C

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

GAS)

UPPER/LOWER UPPER EXPLOSION LIMIT: 6.7 %(V) FLAMMABILITY OR LOWER EXPLOSION LIMIT: 1 %(V)

EXPLOSIVE LIMITS

VAPOUR PRESSURE 9.52 HPA AT 20 C - OECD TEST GUIDELINE 104

VAPOUR DENSITY NO DATA AVAILABLE

RELATIVE DENSITY 0.87

WATER SOLUBILITY 0.2 G/L AT 25 C (77 F) - REGULATION (EC) NO. 440/2008,

ANNEX, A.6 - SLIGHTLY SOLUBLE

PARTITION COEFFICIENT: POW: 4,170; LOG POW: 3.6 AT 20 C - REGULATION (EC)

N- OCTANOL/WATER NO. 440/2008, ANNEX, A.8

AUTO-IGNITION 430 C AT 1,013 HPA

TEMPERATURE

DECOMPOSITION NO DATA AVAILABLE

TEMPERATURE

VISCOSITY 0.773 MM2/S AT 20 C - OECD TEST GUIDELINE 114

EXPLOSIVE PROPERTIES NO DATA AVAILABLE OXIDIZING PROPERTIES NO DATA AVAILABLE

OTHER SAFETY INFORMATION

SURFACE TENSION 71.2 MN/M AT 23 C

## SECTION 10. STABILITY AND REACTIVITY

**REACTIVITY** NO DATA AVAILABLE

CHEMICAL STABILITY NO DATA AVAILABLE

POSSIBILITY OF NO DATA AVAILABLE HAZARDOUS REACTIONS

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 LD50 ORAL - RAT - MALE AND FEMALE - 3,500 MG/KG

REMARKS: (ECHA)

LC50 INHALATION - RAT - MALE - 4 H - 17.8 MG/L -

**VAPOR** 

REMARKS: (ECHA)

LD50 DERMAL - RABBIT - 15,433 MG/KG

REMARKS: (RTECS)

NO DATA AVAILABLE

SKIN - RABBIT

**CORROSION/IRRITATION** RESULT: MODERATE SKIN IRRITATION - 24 H

**SERIOUS EYE** EYES - RABBIT

**DAMAGE/EYE IRRITATION** RESULT: MILD EYE IRRITATION

REMARKS: (ECHA

RESPIRATORY OR SKIN

SENSITISATION

PATCH TEST: - HUMAN RESULT: NEGATIVE

REMARKS: (IUCLID)

**GERM CELL** MUTAGENICITY TEST TYPE: MUTAGENICITY (MAMMAL CELL TEST):

TEST SYSTEM: MOUSE LYMPHOMA TEST

METABOLIC ACTIVATION: WITH AND WITHOUT

METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 476

**RESULT: NEGATIVE** TEST TYPE: AMES TEST

TEST SYSTEM: SALMONELLA TYPHIMURIUM METABOLIC ACTIVATION: WITH AND WITHOUT

METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 471

RESULT: NEGATIVE TEST TYPE: HAMSTER TEST SYSTEM: OVARY

METABOLIC ACTIVATION: WITH AND WITHOUT

METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 473

**RESULT: NEGATIVE** 

TEST TYPE: MUTAGENICITY (IN VIVO MAMMALIAN BONE-MARROW CYTOGENETIC TEST, CHROMOSOMAL

ANALYSIS) SPECIES: MOUSE

APPLICATION ROUTE: INHALATION METHOD: OECD TEST GUIDELINE 474

**RESULT: NEGATIVE** 

**CARCINOGENICITY** 

NTP:

IARC: 2B - GROUP 2B: POSSIBLY CARCINOGENIC TO HUMANS

> 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** 

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

- HEARING ORGANS

ASPIRATION HAZARD MAY BE FATAL IF SWALLOWED AND ENTERS

AIRWAYS.

# ADDITIONAL INFORMATION

REPEATED DOSE TOXICITY - RAT - MALE AND FEMALE - ORAL - 90 D - NOAEL (NO OBSERVED ADVERSE EFFECT LEVEL) - 75 MG/KG - LOAEL (LOWEST OBSERVED ADVERSE EFFECT LEVEL) - 250 MG/KG

RTECS: DA0700000

CENTRAL NERVOUS SYSTEM DEPRESSION, NAUSEA, HEADACHE, VOMITING, ATAXIA, TREMORS TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

#### SYSTEMIC EFFECTS:

CNS DISORDERS TIREDNESS DROWSINESS DIZZINESS CONVULSIONS HEADACHE NARCOSIS

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

STOMACH - IRREGULARITIES - BASED ON HUMAN EVIDENCE

# SECTION 12. ECOLOGICAL INFORMATION

**TOXICITY** 

TOXICITY TO FISH SEMI-STATIC TEST LC50 - ONCORHYNCHUS MYKISS

(RAINBOW TROUT) - 4.2 MG/L - 96 H

(OECD TEST GUIDELINE 203)

TOXICITY TO DAPHNIA STATIC TEST EC50 - DAPHNIA MAGNA (WATER FLEA) -

AND OTHER AQUATIC 1.8 - 2.4 MG/L 48 H

INVERTEBRATES (US-EPA)

TOXICITY TO ALGAE STATIC TEST EC50 - PSEUDOKIRCHNERIELLA

SUBCAPITATA (GREEN ALGAE) - 3.6 MG/L - 96 H

(US-EPA)

TOXICITY TO BACTERIA EC50 - PHOTOBACTERIUM PHOSPHOREUM - 9.68 MG/L

- 30 MIN

REMARKS: (IUCLID)

TOXICITY TO DAPHNIA SEMI-STATIC TEST NOEC - CERIODAPHNIA DUBIA

AND OTHER AQUATIC (WATER FLEA) - 0.96 MG/L - 7 D

INVERTEBRATES(CHRONIC (US-EPA)

TOXICITY)

PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY AEROBIC - EXPOSURE TIME 28 D

RESULT: CA.79 % - READILY BIODEGRADABLE.

(ISO 14593)

**BIOACCUMULATIVE**DUE TO THE DISTRIBUTION COEFFICIENT N-

POTENTIAL OCTANOL/WATER, ACCUMULATION IN ORGANISMS IS

NOT EXPECTED.

MOBILITY IN SOIL NO DATA AVAILABLE

RESULTS OF PBT AND VPVB

ASSESSMENT

 ${\tt PBT/VPVB} \ {\tt ASSESSMENT} \ {\tt NOT} \ {\tt AVAILABLE} \ {\tt AS}$ 

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

DOT (US)

PROPER SHIPPING NAME: ETHYLBENZENE

UN NUMBER: 1175 CLASS: 3 PACKING GROUP: II

REPORTABLE QUANTITY

(RO)

UANTITY 1000 LBS

NO

POISON INHALATION HAZARD:

IMDG

PROPER SHIPPING NAME: ETHYLBENZENE

UN NUMBER: 1175
CLASS: 3
PACKING GROUP: II
EMS-NO: F-E, S-D

**IATA** 

PROPER SHIPPING NAME: ETHYLBENZENE

UN NUMBER: 1175 CLASS: 3 PACKING GROUP: II

## SECTION 15. REGULATORY INFORMATION

SARA 302 COMPONENTS THIS MATERIAL DOES NOT CONTAIN ANY

COMPONENTS WITH A SECTION 302 EHS TPQ.

**SARA 313 COMPONENTS** 

THE FOLLOWING COMPONENTS ARE SUBJECT TO REPORTING LEVELS ESTABLISHED

BY SARA TITLE III, SECTION 313:

CAS-NO. REVISION DATE

Ethylbenzene 100-41-4 07-01-2007

SARA 311/312 HAZARDS FIRE HAZARD, CHRONIC HEALTH HAZARD

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Ethylbenzene 100-41-4 07-01-2007

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

CAS-NO. REVISION DATE

Ethylbenzene 100-41-4 07-01-2007

**CALIFORNIA PROP. 65 COMPONENTS** 

WHICH IS/ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

CAS-NO. REVISION DATE

Ethylbenzene 100-41-4 09-28-2007

#### SECTION 16. OTHER INFORMATION

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

H225 HIGHLY FLAMMABLE LIQUID AND VAPOR.

H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

H332 HARMFUL IF INHALED.

H351 SUSPECTED OF CAUSING CANCER.

H373 MAY CAUSE DAMAGE TO ORGANS (HEARING ORGANS)

THROUGH PROLONGED OR REPEATED EXPOSURE.

H401 TOXIC TO AQUATIC LIFE.

H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

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: 03/03/2023*