# Chem-Impex International Inc.

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# SAFETY DATA SHEET

#### SECTION 1. CHEMICAL IDENTIFICATION

CATALOG #: 33842

NAME: Benzyl benzoate

SYNONYMS: Benzoic acid benzyl ester

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 SHORT-TERM (ACUTE) AQUATIC HAZARD (CATEGORY 1), H400 LONG-TERM (CHRONIC) AQUATIC HAZARD (CATEGORY 2), H411 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 HARMFUL IF SWALLOWED. H400 VERY TOXIC TO AQUATIC LIFE.

H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRECAUTIONARY STATEMENT(S)

P264 WASH SKIN THOROUGHLY AFTER HANDLING.
P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS

PRODUCT.

**NONE** 

P273 AVOID RELEASE TO THE ENVIRONMENT.

P301 + P312 + P330 IF SWALLOWED: CALL A POISON CENTER/ DOCTOR IF YOU

FEEL UNWELL. RINSE MOUTH.

P391 COLLECT SPILLAGE.

P501 DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED

WASTE DISPOSAL PLANT.

HAZARDS NOT

**OTHERWISE** 

CLASSIFIED (HNOC) OR NOT COVERED

**BY GHS** 

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MF:  $C_{14}H_{12}O_2$ 

MW: 212.24

CAS-NO. 120-51-4

PURITY: 99 - 100% (GC)

### **HAZARDOUS COMPONENTS**

COMPONENT	CLASSIFICATION	CONCENTRATION
Benzyl benzoate		
	ACUTE TOX. 4; AQUATIC ACUTE 1; AQUATIC CHRONIC 2; H302, H400, H411 M-FACTOR - AQUATIC ACUTE: 1	<= 100%

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**

SHOW THIS MATERIAL SAFETY DATA SHEET TO THE **GENERAL ADVICE** 

DOCTOR IN ATTENDANCE.

IF INHALED AFTER INHALATION: FRESH AIR.

IN CASE OF SKIN IN CASE OF SKIN CONTACT: TAKE OFF IMMEDIATELY **CONTACT** 

ALL CONTAMINATED CLOTHING. RINSE SKIN WITH

WATER/ SHOWER.

IN CASE OF EYE AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF

**CONTACT** WATER. REMOVE CONTACT LENSES.

IF SWALLOWED AFTER SWALLOWING: IMMEDIATELY MAKE VICTIM

DRINK WATER (TWO GLASSES AT MOST). CONSULT A

PHYSICIAN.

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 FOAM CARBON DIOXIDE (CO2) DRY POWDER

UNSUITABLE EXTINGUISHING MEDIA

FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF

EXTINGUISHING AGENTS ARE GIVEN.

**SPECIAL HAZARDS** CARBON OXIDES **ARISING FROM THE** COMBUSTIBLE.

SUBSTANCE OR MIXTURE VAPORS ARE HEAVIER THAN AIR AND MAY SPREAD

ALONG FLOORS.

FORMS EXPLOSIVE MIXTURES WITH AIR ON INTENSE

HEATING.

DEVELOPMENT OF HAZARDOUS COMBUSTION GASES

OR VAPOURS POSSIBLE IN THE EVENT OF FIRE.

**ADVICE FOR** IN THE EVENT OF FIRE, WEAR SELF-CONTAINED

**FIREFIGHTERS** BREATHING APPARATUS.

**FURTHER INFORMATION** PREVENT FIRE EXTINGUISHING WATER FROM

CONTAMINATING SURFACE WATER OR THE GROUND

WATER SYSTEM.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONALADVICE FOR NON-EMERGENCY PERSONNEL: DO NOTPRECAUTIONS,BREATHE VAPORS, AEROSOLS. AVOID SUBSTANCEPROTECTIVECONTACT. ENSURE ADEQUATE VENTILATION.EQUIPMENT ANDEVACUATE THE DANGER AREA, OBSERVE

**EMERGENCY** EMERGENCY PROCEDURES, CONSULT AN EXPERT.

PROCEDURES FOR PERSONAL PROTECTION SEE SECTION 8.

ENVIRONMENTAL PRECAUTIONS

DO NOT LET PRODUCT ENTER DRAINS.

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). TAKE UP WITH LIQUID-ABSORBENT MATERIAL. DISPOSE OF PROPERLY.

CLEAN UP AFFECTED AREA.

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 TIGHTLY CLOSED.

**STORAGE, INCLUDING ANY INCOMPATIBILITIES** Store at 0 - 8 °C

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### CONTROL PARAMETERS

#### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

#### **EXPOSURE CONTROLS**

**APPROPRIATE** CHANGE CONTAMINATED CLOTHING. PREVENTIVE SKIN **ENGINEERING** PROTECTION RECOMMENDED. WASH HANDS AFTER

**CONTROLS** WORKING WITH SUBSTANCE.

#### PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE USE EQUIPMENT FOR EYE PROTECTION TESTED AND

APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS **PROTECTION** 

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

SKIN PROTECTION THIS RECOMMENDATION APPLIES ONLY TO THE PRODUCT

> STATED IN THE SAFETY DATA SHEET, SUPPLIED BY US AND FOR THE DESIGNATED USE. WHEN DISSOLVING IN OR MIXING

WITH OTHER SUBSTANCES AND UNDER CONDITIONS

DEVIATING FROM THOSE STATED IN EN374 PLEASE CONTACT

THE SUPPLIER OF CE-APPROVED GLOVES

FULL CONTACT

MATERIAL: BUTYL-RUBBER

MINIMUM LAYER THICKNESS: 0.7 MM **BREAK THROUGH TIME: 480 MIN** 

MATERIAL TESTED:BUTOJECT (KCL 898)

SPLASH CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0.4 MM

**BREAK THROUGH TIME: 30 MIN** 

MATERIAL TESTED: CAMATRIL (KCL 730, SIZE M)

**BODY PROTECTION** PROTECTIVE CLOTHING

RESPIRATORY REQUIRED WHEN VAPOURS/AEROSOLS ARE GENERATED. OUR **PROTECTION** 

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.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Colorless, oily liquid
ODOUR WEAKLY AROMATIC
ODOUR THRESHOLD NO DATA AVAILABLE
PH NO DATA AVAILABLE

MELTING

POINT/FREEZING POINT

INITIAL BOILING POINT > 323 °C

AND BOILING RANGE

FLASH POINT > 93 °C

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

GAS)

UPPER/LOWER NO DATA AVAILABLE

FLAMMABILITY OR EXPLOSIVE LIMITS

VAPOUR PRESSURE < 0.1 HPA AT 25 C

VAPOUR DENSITY 7.31 RELATIVE DENSITY 1.12

WATER SOLUBILITY 0.0153 G/L AT 20 C

PARTITION COEFFICIENT: LOG POW: 3.97 AT 25 C - (LIT.), BIOACCUMULATION IS

N- OCTANOL/WATER NOT EXPECTED.
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 INFORMATION

RELATIVE VAPOR 7.31

DENSITY

#### SECTION 10. STABILITY AND REACTIVITY

**REACTIVITY** FORMS EXPLOSIVE MIXTURES WITH AIR ON INTENSE

HEATING.

A RANGE FROM APPROX. 15 KELVIN BELOW THE FLASH

POINT IS TO BE RATED AS CRITICAL.

CHEMICAL STABILITY THE PRODUCT IS CHEMICALLY STABLE UNDER

STANDARD AMBIENT CONDITIONS (ROOM

TEMPERATURE).

POSSIBILITY OF HAZARDOUS REACTIONS NO DATA AVAILABLE

**CONDITIONS TO AVOID** STRONG HEATING.

INCOMPATIBLE MATERIALS

NO DATA AVAILABLE

HAZARDOUS DECOMPOSITION PRODUCTS HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS. - CARBON OXIDES OTHER DECOMPOSITION PRODUCTS - NO DATA

**AVAILABLE** 

IN THE EVENT OF FIRE: SEE SECTION 5

#### SECTION 11. TOXICOLOGICAL INFORMATION

# INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY LD50 ORAL - RAT - 1,904 MG/KG

REMARKS: (RTECS)

INHALATION: NO DATA AVAILABLE

LD50 DERMAL - RABBIT - 4,000 MG/KG

REMARKS: (RTECS)

NO DATA AVAILABLE

SKIN - RABBIT

**CORROSION/IRRITATION** RESULT: NO SKIN IRRITATION - 4 H

(OECD TEST GUIDELINE 404)

**SERIOUS EYE** EYES - RABBIT

**DAMAGE/EYE IRRITATION** RESULT: NO EYE IRRITATION

(OECD TEST GUIDELINE 405)

RESPIRATORY OR SKIN SENSITISATION PATCH TEST: - HUMAN RESULT: NEGATIVE

REMARKS: (IUCLID)

SENSITISATION TEST: - GUINEA PIG

RESULT: NEGATIVE REMARKS: (IUCLID)

SENSITISATION TEST: - MOUSE

RESULT: NEGATIVE

(OECD TEST GUIDELINE 429)

**GERM CELL** AMES TEST

MUTAGENICITY RESULT: NEGATIVE

(IUCLID)

**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** 

ACUTE ORAL TOXICITY - NAUSEA, VOMITING,

DIARRHEA

ACUTE INHALATION TOXICITY - IRRITATION

SYMPTOMS IN THE RESPIRATORY TRACT.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED

**EXPOSURE** 

NO DATA AVAILABLE

**ASPIRATION HAZARD** NO DATA AVAILABLE

ADDITIONAL INFORMATION

RTECS: DG4200000

CARDIOVASCULAR EFFECTS, MUSCLE

CRAMPS/SPASMS, ATAXIA.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE

NOT BEEN THOROUGHLY INVESTIGATED.

SYSTEMIC EFFECTS:

CARDIOVASCULAR DISORDERS, AGITATION, SPASMS, ATAXIA (IMPAIRED LOCOMOTOR COORDINATION) OTHER DANGEROUS PROPERTIES CAN NOT BE

EXCLUDED.

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL

HYGIENE AND SAFETY PRACTICE.

#### SECTION 12. ECOLOGICAL INFORMATION

TOXICITY TO FISH SEMI-STATIC TEST LC50 - DANIO RERIO (ZEBRA FISH)

- 0.29 MG/L - 96 H

(DIRECTIVE 67/548/EEC, ANNEX V, C.1.)

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

OTHER AQUATIC

3.09 MG/L - 48 H

INVERTEBRATES (OECD TEST GUIDELINE 202)

TOXICITY TO ALGAE STATIC TEST ERC50 - PSEUDOKIRCHNERIELLA

SUBCAPITATA (GREEN ALGAE) - 0.475 MG/L - 72 H

(OECD TEST GUIDELINE 201)

TOXICITY TO BACTERIA STATIC TEST EC50 - ACTIVATED SLUDGE - > 10,000

MG/L - 3H

(OECD TEST GUIDELINE 209)

PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY AEROBIC - EXPOSURE TIME 28 D

RESULT: 94 % - READILY BIODEGRADABLE. (REGULATION (EC) NO. 440/2008, ANNEX, C.4-D)

**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** WASTE MATERIAL MUST BE DISPOSED OF IN

ACCORDANCE WITH THE NATIONAL AND LOC NO

MIXING WITH OTHER WASTE.

CONTAMINATED

**PACKAGING** 

DISPOSE OF AS UNUSED PRODUCT.

# SECTION 14. TRANSPORT INFORMATION

DOT (US)

NOT DANGEROUS GOODS

**IMDG** 

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (BENZYL BENZOATE)

UN NUMBER: 3082
CLASS: 9
PACKING GROUP: III
EMS-NO: F-A, S-F
MARINE POLLUTANT: YES

**IATA** 

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (BENZYL BENZOATE)

UN NUMBER: 3082 CLASS: 9 PACKING GROUP: III

#### **FURTHER INFORMATION**

EHS-MARK REQUIRED (IMDG CODE 2.10.3) FOR SINGLE PACKAGINGS AND COMBINATION PACKAGINGS CONTAINING INNER PACKAGINGS WITH DANGEROUS GOODS > 5L FOR LIQUIDS OR > 5KG FOR SOLIDS.

#### 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 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.

H302 HARMFUL IF SWALLOWED H400 VERY TOXIC TO AQUATIC LIFE.

H411 TOXIC 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:

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