

Creation Date 16-Feb-2015

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**Revision Number** 1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1. Product identification

Product Description:	2,6-Dimethylbenzyl chloride, 98%	
Cat No. :	457470000; 457470050; 457470250	
Synonyms	Benzene, 2-(chloromethyl)-1,3-dimethyl-	
	1-Chloromethyl-2,6-dimethylbenzene	
CAS-No	5402-60-8	
Molecular Formula	C9H11CI	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
Recommended Use		
	Laboratory chemicals.	
Uses advised against	No Information available	
1.3. Details of the supplier of the sa	afety data sheet_	
Company	Acros Organics BVBA	
	Janssen Pharmaceuticalaan 3a	
	2440 Geel, Belgium	
E-mail address	begel.sdsdesk@thermofisher.com	
1.4. Emergency telephone number		
	For information <b>US</b> call: 001-800-ACROS-01 / <b>Europe</b> call: +32 14 57 52 11	
	Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99	
	CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887	
SECTION 2: HAZARDS IDENTIFICATION		

## 2.1. Classification of the substance or mixture

Physical hazards		
Substances/mixtures corrosive to metal Health hazards	Category 1	
Skin Corrosion/irritation Serious Eye Damage/Eye Irritation	Category 1 A Category 1	
Environmental hazards Based on available data, the classification criteria are not met		

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

R35 - Causes severe burns

## 2.2. Label elements

R-phrase(s)



### Signal Word

Danger

## Hazard Statements

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

## **Precautionary Statements**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

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): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

## 2.3. Other hazards

Lachrymator (substance which increases the flow of tears)

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008	DSD Classification - 67/548/EEC
Benzene, 2-(chloromethyl)-1,3-dimethyl-	5402-60-8		>95	Skin Corr. 1A (H314) Eye Dam. 1 (H318) Met. Corr. 1 (H290)	C;R35

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
Ingestion	Immediate medical attention is required. Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician or Poison Control

Center immediately. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device.

# **Protection of First-aiders** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

### 4.2. Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. . Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

## 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.

## Extinguishing media which must not be used for safety reasons

No information available.

## 5.2. Special hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes. Combustible material. Containers may explode when heated.

## Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Hydrogen chloride gas.

## 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Take precautionary measures against static discharges.

### 6.2. Environmental precautions

Do not allow material to contaminate ground water system. Should not be released into the environment.

## 6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Remove all sources of ignition.

## 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

### 2,6-Dimethylbenzyl chloride, 98%

Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe dust. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from heat and sources of ignition.

## 7.3. Specific end use(s)

Use in laboratories

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1. Control parameters

## Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

## **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust MDHS70 General methods for sampling airborne gases and vapours

Derived No Effect Level (DNEL)	No information available			
Route of exposure	Acute effects (local)	Acute effects	Chronic effects	Chronic effects
		(systemic)	(local)	(systemic)
Oral				
Dermal				
Inhalation				

Predicted No Effect Concentration No information available. (PNEC)

## 8.2. Exposure controls

### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

## Personal protective equipment

Eye Protection	Goggles (European standard - EN 166)
Hand Protection	Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
	See manufacturers	-	EN 374	(minimum requirement)
Neoprene	recommendations			
Natural rubber				
PVC				
Skin and body prot	ection Long	sleeved clothing		
Inspect gloves before us	e.			
			through time which are	e provided by the supplier of the gloves.
(Refer to manufacturer/s				
				conditions, User susceptibility, e.g.
	o take into considerat	ion the specific local	conditions under whic	ch the product is used, such as the danger
of cuts, abrasion.		. ,.		
Remove gloves with care	e avoiding skin conta	mination.		
Respiratory Protect	tion When	workers are facing of	concentrations above t	he exposure limit they must use
	appro	priate certified respir	ators.	
	•		piratory protective equ	ipment must be the correct fit and be used
		aintained properly		
Large scale/emergency	•		•	136 approved respirator if exposure limits
			n or other symptoms a	
			e: Particulates filter c	
Small scale/Laboratory			ritation or other sympto	149:2001 approved respirator if exposure
			<b>k:-</b> Particle filtering: E	
			piece Fit Test should I	
	VVIIEII			
Hygiene Measures	Handl	e in accordance with	n good industrial hygie	ne and safety practice.
Environmental exposu	re controls No inf	ormation available.		
	SECTION 9:	PHYSICAL AN	D CHEMICAL PI	ROPERTIES

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance Physical State	Pale yellow Solid	
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Explosion Limits	No information available No data available No information available 34 - 35 °C / 93.2 - 95 °F No data available 209 °C / 408.2 °F 88 °C / 190.4 °F Not applicable No information available No data available	Measured Calculated <b>Method -</b> No information available Solid
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents Partition Coefficient (n-octanol/wat Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties	No data available Not applicable No data available No data available No information available No information available <b>er)</b> Not applicable No data available Not applicable No information available	Solid Solid explosive air/vapour mixtures possible

Revision Date 16-Feb-2015

2,6-Dimethylbenzyl chloride, 98%

**Oxidizing Properties** 

No information available

## 9.2. Other information

Molecular Formula

C9H11CI

## **SECTION 10: STABILITY AND REACTIVITY**

None known, based on information available

10.2.	Chemical	stability	

10.1. Reactivity

Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Oxidizing agents.

## 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride gas.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

## **Product Information**

(a) acute toxicity; Oral Dermal Inhalation	No data available No data available No data available
(b) skin corrosion/irritation;	Category 1 A
(c) serious eye damage/irritation;	Category 1
(d) respiratory or skin sensitization Respiratory Skin	; No data available No data available
(e) germ cell mutagenicity;	No data available
(f) carcinogenicity;	No data available
	There are no known carcinogenic chemicals in this product
(g) reproductive toxicity;	No data available
(h) STOT-single exposure;	No data available
(i) STOT-repeated exposure;	No data available

Target Organs	No information available.
(j) aspiration hazard;	Not applicable Solid
Symptoms / effects,both acute and delayed	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

## **SECTION 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity Ecotoxicity effects C

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

12.2. Persistence and degradabilityNo information available12.3. Bioaccumulative potentialNo information available12.4. Mobility in soilNo information available12.5. Results of PBT and vPvB<br/>assessmentNo data available for assessment.12.6. Other adverse effects<br/>Endocrine Disruptor InformationThis product does not contain any known or suspected endocrine disruptor

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected endocrine disruptors This product does not contain any known or suspected substance This product does not contain any known or suspected substance

## **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1. Waste treatment methods

Waste from Residues / Unused Products	Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point.
European Waste Catalogue (EWC)	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not dispose of waste into sewer. Large amounts will affect pH and harm aquatic organisms.

## **SECTION 14: TRANSPORT INFORMATION**

## IMDG/IMO

<u>14.1. UN number</u>	UN3261
14.2. UN proper shipping name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S
14.3. Transport hazard class(es)	8
14.4. Packing group	II
ADR	
<u>14.1. UN number</u>	UN3261
<u>14.2. UN proper shipping name</u>	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S
14.3. Transport hazard class(es)	8
14.4. Packing group	II

## <u>IATA</u>

<u>14.1. UN number</u>	UN3261
<u>14.2. UN proper shipping name</u>	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S
<u>14.3. Transport hazard class(es)</u>	8
<u>14.4. Packing group</u>	II
14.5. Environmental hazards	No hazards identified

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to Not applicable, packaged goods Annex II of MARPOL73/78 and the IBC Code

## **SECTION 15: REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories		X = listed									
Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Benzene,	-	-		-	-	-	-	-	-	Х	-
2-(chloromethyl)-1,3-dimethyl-											

## **National Regulations**

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

## 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## **SECTION 16: OTHER INFORMATION**

## Full text of R-phrases referred to under sections 2 and 3

R35 - Causes severe burns

## Full text of H-Statements referred to under sections 2 and 3

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

## Legend

**CAS** - Chemical Abstracts Service TSCA - United States Toxic Substances Control Act Section 8(b) Inventorv EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japanese Existing and New Chemical Substances **IECSC** - Chinese Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances NZIOC - New Zealand Inventory of Chemicals WEL - Workplace Exposure Limit TWA - Time Weighted Average ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer **DNEL** - Derived No Effect Level **PNEC** - Predicted No Effect Concentration **RPE** - Respiratory Protective Equipment LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50%	EC50 - Effective Concentration 50%
NOEC - No Observed Effect Concentration	POW - Partition coefficient Octanol:Water
PBT - Persistent, Bioaccumulative, Toxic	vPvB - very Persistent, very Bioaccumulative
<b>ADR</b> - European Agreement Concerning the International Carriage of Dangerous Goods by Road	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
<b>IMO/IMDG</b> - International Maritime Organization/International Maritime Dangerous Goods Code	<b>MARPOL</b> - International Convention for the Prevention of Pollution from Ships
OECD - Organisation for Economic Co-operation and Development	ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor	VOC - Volatile Organic Compounds
Key literature references and sources for data	
Suppliers safety data sheet, Chemadvisor - LOLI, Merck index,	RTECS
Training Advice	
•	afety Data Sheets (SDS), Personal Protective Equipment (PPE) and

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

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## This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

## Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

2,6-Dimethylbenzyl chloride, 98%

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