

SAFETY DATA SHEET

Revision Date 10-Feb-2015

Revision Number 1

Europe: +32 14 57 52 99

Europe:001-703-527-3887

CHEMTREC Tel. No.US:001-800-424-9300 /

1. Identification				
Product Name	4-Isopropylbenzaldehyde	4-Isopropylbenzaldehyde		
Cat No. :	AC334880000; AC334880025; AC334880050; AC334881000; AC334885000			
Synonyms	Cumic Aldehyde; p-Isopropylbenzaldel	Cumic Aldehyde; p-Isopropylbenzaldehyde.		
Recommended Use	Laboratory chemicals.			
Uses advised against Details of the supplier of the safe	dvised against No Information available of the supplier of the safety data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 /		

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids
Acute oral toxicity
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation
Skin Sensitization
Specific target organ toxicity (single exposure)
Target Organs - Respiratory system.

Label Elements

Signal Word Warning

Hazard Statements

Combustible liquid Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause respiratory irritation Category 4 Category 4 Category 2 Category 2 Category 1 Category 3



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep cool

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
Benzaldehyde, 4-(1-methylethyl)-	122-03-2	98

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.		
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.		
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.		
Ingestion	Clean mouth with water. Get medical attention.		

Most important symptoms/effects	Breathing difficulties. May cause allergic skin reaction. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing		
Notes to Physician	Treat symptomatically		
	5. Fire-fighting measures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO $_2$). Dry chemical. chemical foam. Cool closed containers exposed to fire with water spray.		
Unsuitable Extinguishing Media	No information available		
Flash Point	93 °C / 199.4 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper	No data available		
Lower	No data available		
Sensitivity to Mechanical Impact			
Sensitivity to Static Discharge	No information available		
Specific Hazards Arising from the C Combustible material. Vapors may forr explode when heated.	hemical n explosive mixtures with air. Vapors may form explosive mixture with air. Containers may		

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) **Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>

Health 2	Flammability 2	Instability 0	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions Environmental Precautions	Remove all sources of ignition. Take precautionary measures against static discharges. See Section 12 for additional ecological information. Do not flush into surface water or sanitary sewer system.			
Methods for Containment and Clea Up		e, closed containers for disposal.	, acid binder, universal binder, Do not let this chemical enter the	
	7. Handling	and storage		
Handling		d eyes. Do not breathe vapors c ot surfaces and sources of igniti	r spray mist. Do not ingest. Keep on.	
Storage		•	ner tightly closed. Keep away nosphere. Keep containers tightly	
8. E Exposure Guidelines		/ personal protection		
	established by the region			

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Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties				
Physical State	Liquid			
Appearance	Light yellow			
Odor	No information available			
Odor Threshold	No information available			
рН	No information available			
Melting Point/Range	No data available			
Boiling Point/Range	234 - 235 °C / 453.2 - 455 °F			
Flash Point	93 °C / 199.4 °F			
Evaporation Rate	No information available			
Flammability (solid,gas)	Not applicable			
Flammability or explosive limits				
Upper	No data available			
Lower	No data available			
Vapor Pressure	No information available			
Vapor Density	No information available			
Relative Density	0.979			
Solubility	No information available			
Partition coefficient; n-octanol/water	No data available			
Autoignition Temperature	No information available			
Decomposition Temperature	No information available			
Viscosity	No information available			
Molecular Formula	C10 H12 O			
Molecular Weight	148.2			

10. Stabili	ity and	reactivity

Reactive Hazard	None known, based on information available
Stability	Air sensitive.
Conditions to Avoid	Exposure to air. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents, Strong bases
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information							
Component Informa		LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation				
Benzaldehyde, 4-(1-m		1390 mg/kg (Rat) 2800 mg/kg (Rabbit) Not listed					
F i	pxicologically Synergistic No information available						
Products							
Delayed and immed	liate effects as	well as chronic effe	cts from short ar	d long-term expo	osure		
Irritation	itation No information available						
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Benzaldehyde, 4-(1-methylethyl)-	122-03-2	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable	•			
•	Reproductive Effects No information available.						
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single exposision STOT - repeated ex		Respiratory system None known					
Aspiration hazard		No information ava	No information available				
Symptoms / effects delayed	Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and some symptoms of allergic reaction may include rash, itching, swelling, trouble breathin of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flus			breathing, tingling			
			No information available				
Other Adverse Effe	cts		The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.				

12. Ecological information

Ecotoxicity

Do not empty into drains. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Benzaldehyde, 4-(1-methylethyl)-	Not listed	6.62 mg/L LC50 96 h	Not listed	Not listed	
Persistence and Degrada	ersistence and DegradabilityInsoluble in water May persist based on information available.lioaccumulation/ AccumulationNo information available.				
13. Disposal considerations					
Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			local, regional, and		

14. Transport information						
DOT	Not regulated					
DOT TDG IATA	Not regulated					
	Not regulated					
IMDG/IMO	Not regulated					
	15. Regulatory information					

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzaldehyde,	Х	Х	-	204-516-9	-		Х	Х	Х	Х	Х
4-(1-methylethyl)-											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

Not applicable							
Not applicable							
ation zard	Yes No No No						
Not applicable							
Not applicable							
OSHA Occupational Safety and Health Administration Not applicable							
This product does not contain any Proposition 65 chemicals							
Not applicable							
U.S. Department of Transportation							
N N N							
	Not applicable ation zard Not applicable Not applicable Administration This product does not co Not applicable						

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

B3 Combustible liquid D1B Toxic materials D2B Toxic materials



Prepared By

Revision Date Print Date Revision Summary 16. Other information

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

10-Feb-2015 10-Feb-2015 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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 SDS