

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 24-May-2010	Revision Date 14-Oct-201	4 Revision Number 1		
	1. Identification	1		
Product Name	4-Nitrobenzoic acid			
Cat No. :	AC128460000; AC128460010;	AC128460250; AC128461000		
Synonyms	p-nitrobenzoic acid; p-nitrobenzenecar	boxlyic acid; 1-carboxy-4-nitrobenzene		
Recommended Use	Laboratory chemicals.	Laboratory chemicals.		
Uses advised against Details of the supplier of the safe	No Information available ty data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	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 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 /		

2. Hazard(s) identification

Category 4 Category 2 Category 2 Category 3 Europe:001-703-527-3887

Classification

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

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

Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



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

Use only outdoors or in a well-ventilated area

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

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

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

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 %
p-Nitrobenzoic acid	62-23-7	>95

	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 Notes to Physician	No information available. Treat symptomatically

	5. Fire-fightir	ng measures	
Suitable Extinguishing Media	Water spray. Carbon dioxid	de (CO ₂). Dry chemical. chemica	al foam.
Unsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
Autoignition Temperature Explosion Limits	Not applicable		
Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available No information available No information available		
Specific Hazards Arising from the C Keep product and empty container aw	hemical ay from heat and sources of	ignition.	
Hazardous Combustion Products Nitrogen oxides (NOx) Carbon monoxi Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters		ed or equivalent) and full
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilation See Section 12 for addition	n. Use personal protective equip al ecological information.	oment.
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Up			
	7. Handling	and storage	
Handling	Avoid contact with skin and	l eyes. Do not breathe dust.	
Storage	Keep in a dry, cool and we	II-ventilated place. Keep contain	er tightly closed.
8. E>	posure controls	/ personal protectio	'n
Exposure Guidelines	This product does not cont established by the region s	ain any hazardous materials with pecific regulatory bodies.	h occupational exposure limits
Engineering Measures		n, especially in confined areas. I se to the workstation location.	Ensure that eyewash stations
Personal Protective Equipment Eye/face Protection	Wear appropriate protectiv	e eyeglasses or chemical safety action regulations in 29 CFR 191	
Skin and body protection Respiratory Protection Hygiene Measures	Wear appropriate protectiv No protective equipment is	e gloves and clothing to prevent needed under normal use cond good industrial hygiene and saf	litions.

9. Physical and chemical properties

Physical State Appearance	Powder Solid Light yellow
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	239 - 242 °C / 462.2 - 467.6 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Relative Density	No information available
Solubility	insoluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	> 300°C
Viscosity	Not applicable
Molecular Formula	C7 H5 N O4
Molecular Weight	167.12

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	No information available.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials	Strong oxidizing agents, Bases, Reducing agents	
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component Informa	tion					
Componen	t	LD50 Oral		LD50 Dermal	LC50	Inhalation
p-Nitrobenzoic	acid	Not listed 200 mg/kg (Rabbit) Not listed				
Toxicologically Syn	ergistic	No information available				
Products Delayed and immed	iate effects as w	ell as chronic effe	cts from short an	d long-term expo	sure	
Irritation		No information ava	ailable			
Sensitization		No information available				
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
p-Nitrobenzoic acid	62-23-7	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	Respiratory system None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	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.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
p-Nitrobenzoic acid	Not listed	500 mg/L LC50 96 h	EC50 = 16.625 mg/L 48 h	Not listed
Persistence and Degrada	ability Insoluble in v	vater		

Bioaccumulation/Accumulation

No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
p-Nitrobenzoic acid	1.89

13. Disposal considerations

Waste Disposal Methods

no. Disposar considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
p-Nitrobenzoic acid	Х	Х	-	200-526-2	-		Х	Х	Х	Х	Х

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

TSCA 12(b)	Not applicable					
SARA 313	Not applicable					
SARA 311/312 Hazardous Categor Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure H Reactive Hazard		Yes No No No				
Clean Water Act	Not applicable					
Clean Air Act	Not applicable					
OSHA Occupational Safety and Health Administration Not applicable						
CERCLA Not applicable						
California Proposition 65	This product does not contain any Proposition 65 chemicals					
State Right-to-Know	Not applicable					
U.S. Department of Transportation						
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N					
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	D1B Toxic materials D2B Toxic materials					



Prepared By

16. Other information

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

Creation Date Revision Date Print Date Revision Summary 24-May-2010 14-Oct-2014 14-Oct-2014 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