

SAFETY DATA SHEET

Creation Date 10-Feb-2015 Revision Date 02-Mar-2018 Revision Number 1

1. Identification

Product Name 4-Hydroxyphenylacetonitrile

Cat No. : A10971

CAS-No 14191-95-8

Synonyms 4-Hydroxyphenylacetonitrile

Recommended Use Laboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757

Email: tech@alfa.com

www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

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

Acute oral toxicity
Category 4
Acute dermal toxicity
Category 4
Acute Inhalation Toxicity - Dusts and Mists
Category 4
Skin Corrosion/irritation
Category 2
Serious Eye Damage/Eye Irritation
Category 2
Specific target organ toxicity (single exposure)
Category 3

Target Organs - Respiratory system.

Combustible dust Yes

Label Elements

Signal Word

Warning

Hazard Statements

May form combustible dust concentrations in air Harmful if swallowed Harmful in contact with skin Causes skin irritation

Causes serious eye irritation Harmful if inhaled 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

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

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 %	
4-Hydroxyphenylacetonitrile	14191-95-8	>95	

4. First-aid measures

Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Skin ContactObtain medical attention. Wash off immediately with plenty of water for at least 15 minutes.

InhalationMove to fresh air. Do not use mouth-to-mouth method if victim indested or inhaled the

substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If

not breathing, give artificial respiration.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms and

effects

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam. **Suitable Extinguishing Media**

Unsuitable Extinguishing Media No information available

178 °C / 352.4 °F **Flash Point**

No information available Method -

Autoignition Temperature

Explosion Limits

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx) 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.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

Accidental release measures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. **Personal Precautions**

Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not get

. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for Up

disposal. Do not let this chemical enter the environment.

/ H	Handi	ına	and	storage

Use only under a chemical fume hood. Wear personal protective equipment. Do not get in Handling

eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. Avoid dust formation. Fine

dust dispersed in air may ignite.

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Storage

8. Exposure controls / personal protection

Exposure Guidelines

4-Hydroxyphenylacetonitrile

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
4-Hydroxyphenylacetonitrile		(Vacated) TWA: 5 mg/m ³	IDLH: 25 mg/m ³	TWA: 5 mg/m ³

Legend

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Ensure that eyewash stations and safety showers are close to the workstation location. Use **Engineering Measures**

only under a chemical fume hood. Use explosion-proof

electrical/ventilating/lighting/equipment.

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.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard **Respiratory Protection**

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

9. Physical and chemical properties

Physical State Powder Solid Dark yellow **Appearance**

No information available Odor **Odor Threshold** No information available pН No information available

Melting Point/Range

68 - 72 °C / 154.4 - 161.6 °F 330 °C / 626 °F @ 756 mmHg **Boiling Point/Range**

178 °C / 352.4 °F Flash Point Not applicable **Evaporation Rate**

No information available Flammability (solid,gas)

Flammability or explosive limits

Upper No data available No data available Lower No information available **Vapor Pressure** Not applicable **Vapor Density**

Specific Gravity No information available

Solubility slightly soluble Partition coefficient; n-octanol/water No data available

Autoignition Temperature Decomposition Temperature No information available

Viscosity Not applicable C8 H7 N O Molecular Formula 133.15 **Molecular Weight**

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Avoid dust formation.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

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
4-Hydroxyphenylaceto	14191-95-8	Not listed				
nitrile						

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental EffectsNo information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability May persist based on information available.

Bioaccumulation/ Accumulation No information available.

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

13. Disposal consideration	ons
	13. Disposal considerati

Waste Disposal Methods 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

UN-No UN3439

Proper Shipping Name NITRILES, SOLID, TOXIC, N.O.S.

Proper technical name (2-(4-HYDROXYPHENYL)ACETONITRILE)

Hazard Class 6.1 Packing Group III

TDG

UN-No UN3439

Proper Shipping Name NITRILES, SOLID, TOXIC, N.O.S.

Hazard Class 6.1 Packing Group III

<u>IATA</u>

UN-No UN3439

Proper Shipping Name NITRILES, SOLID, TOXIC, N.O.S.

Hazard Class 6.1 Packing Group III

IMDG/IMO

UN-No UN3439

Proper Shipping Name NITRILES, SOLID, TOXIC, N.O.S.

Hazard Class 6.1 Packing Group III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
4-Hydroxyphenylacetonitrile	1		-	238-046-0	1		Χ	-	•	Χ	-

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

•,			
Component	CAS-No	Weight %	SARA 313 - Threshold Values %
4-Hydroxyphenylacetonitrile	14191-95-8	>95	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants
•	Substances	Quantities		

4-Hydroxyphenylacetonitrile

4-Hydroxyphenylacetonitrile	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
4-Hydroxyphenylacetonitrile	X		-

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
4-Hydroxyphenylacetonitr	-	X	X	Х	X
ile					

U.S. Department of Transportation

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

	16. Other information	
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com	

10-Feb-2015

Creation Date Revision Date 02-Mar-2018 02-Mar-2018 **Print Date**

Revision Summary SDS authoring systems update, replaces ChemGes SDS No. 14191-95-8/2.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS