

SAFETY DATA SHEET

Revision Date 26-May-2017

Revision Number 2

1. Identification

Product Name

4-Hydroxycarbazole

Cat No. :

AC366960000; AC366960010; AC366960050

Synonyms

No information available

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

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 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

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

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

Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

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 %
9H-Carbazol-4-ol	52602-39-8	100

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-fighting measures
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	No information available
Explosion Limits Upper Lower	No data available No data available

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available				
Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources of ignition.				
Nitrogen ox Protective	Equipment and Precaut re, wear self-contained br		92) emand, MSHA/NIOSH (approve	ed or equivalent) and full
<u>NFPA</u>	Health 2	Flammability 0	Instability 0	Physical hazards N/A
		6. Accidental rel	ease measures	
	Precautions ental Precautions	Ensure adequate ventilation See Section 12 for addition	n. Use personal protective equi al ecological information.	pment.
Methods fo Up	or Containment and Clea	an Sweep up or vacuum up sp	illage and collect in suitable co	ntainer for disposal.
		7. Handling a	and storage	
Handling				not breathe vapors or spray mist.
Storage		Keep in a dry, cool and wel	I-ventilated place. Keep contair	ner tightly closed.
	8. E	xposure controls /	personal protection	on
Exposure	<u>Guidelines</u>		ain any hazardous materials wi ion specific regulatory bodies.	th occupational exposure
Engineerir	ng Measures		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations
Personal F	Protective Equipment			
Eye/fac	ce Protection	Wear appropriate protective OSHA's eye and face prote EN166.	e eyeglasses or chemical safet ction regulations in 29 CFR 19	y goggles as described by 10.133 or European Standard
Skin ar	nd body protection	Wear appropriate protective	e gloves and clothing to preven	t skin exposure.
Respir	atory Protection	EN 149. Use a NIOSH/MSH	regulations found in 29 CFR 1 IA or European Standard EN 1 ed or if irritation or other sympto	
Hygien	e Measures	Handle in accordance with	good industrial hygiene and sa	fety practice.
		9. Physical and cho		
Physical S	tate	5	Solid	

	9. Physical and chemical properties
Physical State	Solid
Appearance	Off-white
Odor	No information available
Odor Threshold	No information available
рН	No information available

Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas)	169 - 173 °C / 336.2 - 343.4 °F No information available No information available No information available No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
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	C12 H9 N O
Molecular Weight	183.21

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s 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 acute toxicity information is available for this product No information available
	well as chronic effects from short and long-term exposure
	No information available

Sensitization No information available

Carcinogenicity

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
9H-Carbazol-4-ol	52602-39-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	S	No information ava	ailable.			
	.0					
Developmental Effe	cts	No information available.				
Teratogenicity		No information ava	ailable.			

The table below indicates whether each agency has listed any ingredient as a carcinogen.

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.
12. Ecological information	

<u>Ecotoxicity</u> Do not empty into drains.

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.

	13. Disposal considerations
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	Not regulated
DOT TDG IATA	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
15. Regulatory information	

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
9H-Carbazol-4-ol	-	-	-	258-034-9	-		-	-	-	-	-

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 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	azard	Yes No No No	
CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
OSHA Occupational Safety and Healt Not applicable	th Administration		
CERCLA Not applicable			
California Proposition 65	This product does not co	ntain any Proposition 65 chemicals	
U.S. State Right-to-Know Regulations	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

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	26-May-2017 26-May-2017 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 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