

SAFETY DATA SHEET

Creation Date 03-May-2012

Revision Date 05-Mar-2019

Revision Number 5

1. Identification

Product Name

AC104860000; AC104860025; AC104860050; AC104860100; AC104861000; AC104865000

CAS-No Synonyms

Cat No. :

120-12-7 Green oil; Paranaphtalene

Anthracene

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

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 Combustible dust Category 2 Category 2 Yes

Label Elements

Signal Word Warning

Hazard Statements May form combustible dust concentrations in air Causes skin irritation Causes serious eye irritation



Precautionary Statements Prevention

Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

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

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Anthracene	120-12-7	>95

4. First-aid measures		
General Advice If symptoms persist, call a physician.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.	
Inhalation	Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration.	
Ingestion	Do NOT induce vomiting. Get medical attention.	
Most important symptoms and	None reasonably foreseeable.	
effects Notes to Physician	Treat symptomatically	

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	121 °C / 249.8 °F
Method -	No information available

Autoignition Temperature	540 °C / 1004 °F
Explosion Limits	
Upper	No data available
Lower	0.6 vol %
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Fine dust dispersed in air may ignite. Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses.

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.

NFPA Health 2	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.		
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling Wear personal protective equipment/face protection. Ensure adequate ve dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion a	
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight.

8. Exposure controls /	personal	protection
	personar	

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Anthracene		TWA: 0.2 mg/m ³		

<u>Legend</u>

OSHA - Occupational Safety and Health Administration

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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard 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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН . Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight**

Powder Solid Yellow aromatic No information available 215 - 218 °C / 419 - 424.4 °F 340 °C / 644 °F @ 760 mmHg 121 °C / 249.8 °F Not applicable No information available

No data available 0.6 vol % 1.3 mbar @ 145 °C Not applicable No information available insoluble No data available 540 °C / 1004 °F No information available Not applicable C14 H10 178.23

10. Stability and reactivity

Reactive Hazard None known, based on information available	
Stability	Stable under normal conditions. Sensitivity to light.
Conditions to Avoid Avoid dust formation. Incompatible products. Excess heat. Exposure to light.	
Incompatible Materials Acids, Strong oxidizing agents, Fluorine	
Hazardous Decomposition Products 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

Component LD50 Oral		LD50 Dermal	LC50 Inhalation
Anthracene	LD50 > 16 g/kg (Rat)	>1320 mg/kg (Rat)	Not listed

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 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			
Anthracene	120-12-7	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects	Mutagenic Effects		No information available						
Reproductive Effects		No information available.							
Developmental Effe	cts	No information ava	ailable.						
Teratogenicity		No information available.							
STOT - single exposision STOT - repeated ex		None known None known							
Aspiration hazard		No information available							
Symptoms / effects delayed	,both acute and	ute and No information available							
Endocrine Disrupto	r Information	No information available							
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.							

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Anthracene	EC50: 0.0039 - 0.0374 mg/L, 22h (Pseudokirchneriella subcapitata)	LC50: = 0.00278 mg/L, 96h static (Lepomis macrochirus) LC50: 0 - 0.00318 mg/L, 96h flow-through (Lepomis macrochirus)		EC50: 0.081 - 0.112 mg/L, 48h (Daphnia magna)

Persistence and Degradability Insoluble in water May persist

Bioaccumulation/Accumulation

No information available.

Mobility

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

Component	log Pow
Anthracene	4.54

13. Disposal considerations

Waste Disposal MethodsChemical 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 Proper Shipping Name Technical Name Hazard Class Packing Group TDG	UN3077 Environmentally hazardous substances, solid, n.o.s. Anthracene 9 III
UN-No	UN3077
Proper Shipping Name Hazard Class Packing Group	Environmentally hazardous substances, solid, n.o.s. 9 III
IATA	
UN-No Dropor Shinning Name	UN3077
Proper Shipping Name Hazard Class	Environmentally hazardous substances, solid, n.o.s.
Packing Group	
IMDG/IMO	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Anthracene	120-12-7	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Anthracene	120-12-7	Х	-	204-371-1	Х	Х	Х	Х	KE-01825

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Anthracene	120-12-7	>95	1.0 0.1

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

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Anthracene	-	-	-	X
Clean Air Act	Not applicable			

Not applicable **OSHA** - Occupational Safety and

Health Administration

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Anthracene	5000 lb	-
Colifornia Dranasitian 65 This product	doop not contain any Droposition 65 ab	amiaala

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

U.S. State Right-to-Know Regulations

Regulationo					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Anthracene	Х	Х	Х	-	-

U.S. Department of Transportation

0.5. Department of Transportation	
Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν
U.S. Department of Homeland	This product does not contain any DHS chemicals.
Security	
Other International Regulations	

Mexico - Grade

Slight risk, Grade 1

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	03-May-2012 05-Mar-2019 05-Mar-2019 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