

SAFETY DATA SHEET

Creation Date 23-Nov-2009

Revision Date 26-Dec-2021

Revision Number 5

1. Identification Petroleum ether, boiling range 80-110°C

Product Name

AC413160000; AC413160020; AC413160050

CAS No Synonyms

Cat No. :

64742-49-0 Ligroine

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company 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)

Flammable liquids	Category 2	
Skin Corrosion/Irritation	Category 2	
Serious Eye Damage/Eye Irritation	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Target Organs - Central nervous system (CNS).		
Aspiration Toxicity	Category 1	
	0	

Label Elements

Signal Word Danger

Hazard Statements

Highly flammable liquid and vapor

May be fatal if swallowed and enters airways Causes skin irritation Causes serious eye irritation May cause drowsiness or dizziness



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

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

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

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 skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing 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

Indestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Fire

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

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS No	Weight %	
Naphtha (petroleum), hydrotreated light	64742-49-0	>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. If skin irritation persists, call a physician.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. Risk of serious damage to the lungs (by aspiration).		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.		
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically		

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	Water may be ineffective, Do not use a solid water stream as it may scatter and spread fire
Flash Point	-9 °C / 15.8 °F
Method -	No information available
Autoignition Temperature	268 °C / 514.4 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	8.00 vol % 0.60 vol % It No information available No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. 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.

<u>NFPA</u>

Health 3	Flammability 3	FlammabilityInstabilityPhysical hazar30N/A				
	6. Accidental release measures					
Personal Precautions		uipment as required. Ensure ac recautionary measures against	dequate ventilation. Remove all static discharges.			
Environmental Precautions		ater or sanitary sewer system.	erene anderen geer			

Methods for Containment and CleanSoak up with inert absorbent material. Keep in suitable, closed containers for disposal.UpRemove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage					
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.				
Storage.	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open lames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition fake precautionary measures against static discharges. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from neat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing agents. COSULE CONTROLS / PERSONAL PROTECTION This product does not contain any hazardous materials with occupational exposure imitsestablished by the region specific regulatory bodies. Jse only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation ocation. Ensure adequate ventilation, especially in confined areas. Wear appropriate protective eyeglasses or chemical safety goggles as described by DSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Wear appropriate protective gloves and clothing to prevent skin exposure. 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				
8. E	xposure controls / personal protection				
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.				
Engineering Measures	Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.				
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	Liquid
Appearance	Colorless
Odor	Petroleum distillates
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-40 °C / -40 °F
Boiling Point/Range	80 - 110 °C / 176 - 230 °F @ 760 mmHg
Flash Point	-9 °C / 15.8 °F
Evaporation Rate	> 1 (air = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	8.00 vol %
Lower	0.60 vol %
Vapor Pressure	45 mmHg @ 20°C
Vapor Density	No information available
Specific Gravity	0.725
Solubility	Insoluble in water
Partition coefficient; n-octanol/w	ater No data available
Autoignition Temperature	268 °C / 514.4 °F

Decomposition Temperature Viscosity

No information available 0.7 mm²/s @ 20°C

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Excess heat.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂)		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information Component Information

LD50 Oral	LD50 Oral LD50 Dermal			LC50 Inhalation			
LD50 > 5000 mg/kg (Ra	0 > 5000 mg/kg (Rat) LD50 > 3160 mg/kg (Rabbit) LC50 = 73680 p			0 ppm (Rat) 4 h			
No information availa	able						
s as well as chronic effect	s from short an	d long-term exposu	re				
		•					
Irritating to eyes and	skin						
C F							
No information availa	o information available						
The table below indi	cates whether ea	ich agency has listed	any ingredient	as a carcinoger			
No IARC	NTP	ACGIH	OSHA	Mexico			
19-0 Not listed	Not listed	Not listed	Not listed	Not listed			
No information availa	able						
No information avail	abla						
	LD50 > 5000 mg/kg (Ra No information availation Is as well as chronic effect Irritating to eyes and No information availation No information availation The table below indication No IARC 49-0 No information availation No information availation No information availation	I LD50 > 5000 mg/kg (Rat) LD50 > 3 No information available Information available Is as well as chronic effects from short and Irritating to eyes and skin No information available The table below indicates whether ea No IARC	I LD50 > 5000 mg/kg (Rat) LD50 > 3160 mg/kg (Rabbit) No information available Information available Is as well as chronic effects from short and long-term exposure Irritating to eyes and skin No information available The table below indicates whether each agency has listed No IARC Not listed Not listed No information available	I LD50 > 5000 mg/kg (Rat) LD50 > 3160 mg/kg (Rabbit) LC50 = 7368 No information available Information available Information available Is as well as chronic effects from short and long-term exposure Irritating to eyes and skin No information available Information available The table below indicates whether each agency has listed any ingredient and long-term exposure No IARC NTP ACGIH OSHA 49-0 Not listed Not listed No information available Not listed Not listed			

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposureCentral nervous system (CNS)STOT - repeated exposureNone known

Aspiration hazard Category 1

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, delayed tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

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

12. Ecological information

Ecotoxicity

rz. Leological miormation

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

Component	Fresh	water Algae	Freshwater Fish	Microtox	Water Flea	
Naphtha (petroleum), hydrotreated light	Not listed		LC50: = 8.41 mg/L, 96h semi-static, closed (Oncorhynchus mykiss)	Not listed	Not listed	
Persistence and Degrada	bility	Persistence i	s unlikely based on informa	ation available.		
Bioaccumulation/Accumulation		No information	No information available.			
Mobility		Will likely be	mobile in the environment	due to its volatility.		
13. Disposal considerations						
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified a 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							
UN-No	UN3295						
Proper Shipping Name	Hydrocarbons, liquid, n.o.s.						
Hazard Class	3						
Packing Group	II						
<u>TDG</u>							
UN-No	UN3295						
Proper Shipping Name	Hydrocarbons, liquid, n.o.s.						
Hazard Class	3						
Packing Group	II						
ΙΑΤΑ							
UN-No	UN3295						
Proper Shipping Name	Hydrocarbons, liquid, n.o.s.						
Hazard Class	3						
Packing Group	II						
IMDG/IMO	· ······						
UN-No	UN3295						
Proper Shipping Name	Hydrocarbons, liquid, n.o.s.						
Hazard Class	3						
Packing Group	li l						
	15. Regulatory information						

United States of America Inventory

Component	nt CAS No TSC		TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Naphtha (petroleum), hydrotreated light	64742-49-0	Х	ACTIVE	-

Legend:

TSCA US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Naphtha (petroleum), hydrotreated	64742-49-0	Х	-	265-151-9	Х	-		Х	Х	KE-25623
light										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (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.
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 This product does not contain any DHS chemicals. Security

Other International Regulations

Mexico - Grade

Serious risk, Grade 3

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Naphtha (petroleum), hydrotreated light	-	Use restricted. See item 28. (see link for restriction details) Use restricted. See item 29. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Naphtha (petroleum), hydrotreated light	64742-49-0	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Naphtha (petroleum), hydrotreated light	64742-49-0	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	23-Nov-2009
Revision Date	26-Dec-2021
Print Date	26-Dec-2021
Revision Summary	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