

SAFETY DATA SHEET

Revision Date 30-Mar-2024

Revision Number 4

1. Identification

Product Name

2-Oxa-6-azaspiro[3.4]octane

Cat No. : H57579

CAS No Synonyms

Recommended Use Uses advised against No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

220290-68-6

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **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 Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements

Combustible liquid 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

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

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 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

Fire

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

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 2-OXA-6-AZASPIRO[3.4]OCTANE		CAS No	Weight %		
		220290-68-6	<=100		
	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.				
Ingestion	Clean mouth with water and drink afterwards plenty of water.				

Most important symptoms and effects Notes to Physician	Difficulty in breathing. nausea and vomiting Treat symptomatically	Symptoms of overexposu	re may be headache, dizziness, tiredness,			
	5. Fire-figh	nting measures				
Suitable Extinguishing Media	Water mist may be use	ed to cool closed containe	rs.			
Unsuitable Extinguishing Media	No information available					
Flash Point	63 °C / 145.4 °F	63 °C / 145.4 °F				
Method -	No information availab	le				
Autoignition Temperature Explosion Limits Upper	xplosion Limits					
	Lower No data available Sensitivity to Mechanical Impact No information available					
Specific Hazards Arising from the C Combustible material. Containers may						
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxid Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters		H (approved or equivalent) and full			
<u>NFPA</u> Health 2	Flammability 2	Instability 0	Physical hazards -			
	6. Accidental	release measur	es			
Personal Precautions Environmental Precautions	sources of ignition. Take precautionary measures against static discharges.					
Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.UpRemove all sources of ignition.						
		ng and storage				
Handling		on clothing. Avoid ingesti	tion. Ensure adequate ventilation. Do not on and inhalation. Keep away from open			
Storage.	Keep containers tightly heat, sparks and flame	•	well-ventilated place. Keep away from			
	•	ols / personal pro				
Exposure Guidelines		contain any hazardous ma e region specific regulator	aterials with occupational exposure y bodies.			

Engineering Measures	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.	
Recommended Filter type:	conforming to EN14387. Organic gases and vapours filter. Type A. Brown.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

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Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	187 °C / 368.6 °F
Flash Point	63 °C / 145.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.08 g/cm3
Solubility	No information available
Partition coefficient; n-octanol/wat	er No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C6 H11 N O
Molecular Weight	113.16
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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 Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)		
Hazardous Polymerization	Hazardous polymerization does not occur.	

Hazardous Reactions

None under normal processing.

11. Toxicological information

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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_						
-			<u></u>	<u></u>		
Irritation	No information available					
Sensitization	No information available					
Carcinogenicity	The table below indicates w	hether each ag	ency has list	ed any ingredient	as a carcinogen.	
Component CAS No	IARC N		ACGIH	OSHA	Mexico	
2-OXA-6-AZASPIRO[3 220290-68-6 .4]OCTANE	Not listed Not li	isted N	lot 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	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting					
Endocrine Disruptor Information	No information available					
Other Adverse Effects	The toxicological properties	have not been	fully investig	ated.		
	12. Ecological	informat	ion			
<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 co	onsiderati	ions			
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.				gional, and	
	14. Transport					
DOT	COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY					

	Combustible Liquid, NOS if it is shipped in bulk.	,
UN-No	NA1993	
Proper Shipping Name	Combustible liquid, n.o.s.	
Packing Group		
TDG	Not regulated	
IATA	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2-OXA-6-AZASPIRO[3.4]OCTANE	220290-68-6	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993,

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
2-OXA-6-AZASPIRO[3.4]OCTANE	220290-68-6	-	-	-	-	-		-	-	-

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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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 Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · · · · · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
2-OXA-6-AZASPIRO[3.4]OCTANE	220290-68-6	-	-	-

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)
2-OXA-6-AZASPIRO[3.4]OCT ANE	220290-68-6	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

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)
2-OXA-6-AZASPIRO[3.4]OCT ANE	220290-68-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	
Revision Date	30-Mar-2024	

Print Date Revision Summary 30-Mar-2024 New emergency telephone response service provider.

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