

SAFETY DATA SHEET

1. Identification

Product Name	Paraformaldehyde
CAS # Synonyms	30525-89-4 Formaldehyde polymer; Polyoxymethylene; Polyformaldehyde
Recommended Use	Laboratory chemicals.
Uses advised against Details of the supplier of the safety	No Information available data sheet
Company Lab Alley, LLC 12501 Pauls Valley Road, Suite	А,
Austin, TX 78737 U.S.A	
Telephone 512-668-9918	

Fax 512-886-4008

Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRACK International 1-352-323-3500 INFOTRACK

2. Hazard(s) identification

Classification

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

Flammable solids	Category 2
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	
Combustible dust	Yes

Label Elements

Signal Word Danger Hazard Statements Flammable solid May form combustible dust concentrations in air Harmful if swallowed Causes skin irritation May cause an allergic skin reaction Causes serious eye damage Harmful if inhaled May cause respiratory irritation Suspected of causing cancer



Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

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

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Response

IF exposed or concerned: Get medical attention/advice

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Ingestion

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

Rinse mouth

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)

None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
Paraformaldehyde	30525-89-4	>90

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. Obtain medical attention.				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.				
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				
Most important symptoms/effects	Breathing difficulties. May cause allergic skin reaction. Causes eye burns Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing				
Notes to Physician	Treat symptomatically				
5. Fire-fighting measure	es e				
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.				
Unsuitable Extinguishing Media	No information available				
Flash Point Method -	71 °C / 159.8 °F No information available				
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac					

Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Fine dust dispersed in air may ignite.

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 3	Flammability 2	Instability 1	Physical hazards N/A		
6. Accidental release	measures				
Personal Precautions Environmental Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges. Should not be released into the environment. See Section 12 for additional ecological information.				
Methods for Containment and Cle Up		illage and collect in suitable con for disposal. Remove all sourc			

7. Handling and storage	•
Handling	Wear personal protective equipment. Avoid dust formation. Do not get in eyes, on skin, or

	on clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition.			
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.			
8. Exposure controls /	personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.			
Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. 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. Tightly fitting safety goggles.			
Skin and body protection	Long sleeved clothing.			
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	Solid
Appearance	White
Odor	pungent
Odor Threshold	No information available
рН	3.5-5.0 10% susp
Melting Point/Range	120 - 170 °C / 248 - 338 °F
Boiling Point/Range	No information available
Flash Point	71 °C / 159.8 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	73%
Lower	7.0%
Vapor Pressure	1.2 mmHg @ 25 °C
Vapor Density	Not applicable
Relative Density	1.46
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	300 °C / 572 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	(CH2O)n

10. Stability and reactivity

Reactive Hazard

Yes

Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. 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)				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			

11. Toxicolog	gical inforr	nation				
Acute Toxicity						
Product Information						
Oral LD50		Category 4. ATE =	300 - 2000 ma/ka			
Dermal LD50				n criteria are not me	t ATE > 2000 mg	/ka
Mist LC50		Category 4. ATE =		rontena are not me		Ng.
Component Informa	tion		o mg/i.			
Componer		LD50 Oral		LD50 Dermal	LC50	Inhalation
Paraformalder		800 mg/kg (Rat)		Not listed		/m³ (Rat)4 h
Toxicologically Syn	ergistic	No information ava	ilable			
Products	-					
Delayed and immed	liate effects as w	ell as chronic effect	cts from short an	d long-term expos	ure	
Irritation		Irritating to eyes, re	espiratory system	and skin		
Sensitization		No information ava	ilable			
Carcinogenicity		The table below inc	dicates whether ea	ach agency has liste	ed any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Paraformaldehyde	30525-89-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		Mutagenic effects have occurred in experimental animals.				
Reproductive Effect	S	No information available.				
Developmental Effe	cts	No information ava	ilable.			
Teratogenicity		No information ava	ilable.			
STOT - single expos STOT - repeated exp		Respiratory system None known	1			
Aspiration hazard		No information ava	ilable			
Symptoms / effects,both acute and delayedInhalation of high vapor concentrations may cause symptoms like headache, diz tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheaded pain, muscle pain or flushing No information available				le rash, itching,		
Other Adverse Effec	cts	Carcinogenic effects have been reported in experimental animals. The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.				

12	2. E	CO	loa	ical	info	ormation

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Paraformaldehyde	Not listed	>10 mg/L 96h	Not listed	EC50 = 42 mg/L 24h
Persistence and Degradability No information		on available		
Bioaccumulation/ Accumu	ulation No information	on 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					
UN-No	UN2213				
Proper Shipping Name	PARAFORMALDEHYDE				
Hazard Class	4.1				
Packing Group	III				
<u>TDG</u>					
UN-No	UN2213				
Proper Shipping Name	PARAFORMALDEHYDE				
Hazard Class	4.1				
Packing Group	III				
IATA					
UN-No	2213				
Proper Shipping Name	PARAFORMALDEHYDE				
Hazard Class	4.1				
Packing Group	III				
IMDG/IMO					
UN-No	2213				
Proper Shipping Name	PARAFORMALDEHYDE				
Hazard Class	4.1				
Packing Group					

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Paraformaldehyde	Х	Х	-	-	-		Х	Х	Х	Х	Х

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 Hazardous Categorization	
Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Paraformaldehyde	Х	1000 lb	-	-

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

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
Paraformaldehyde		1000 lb	-
California Proposition 65	This product	does not contain any Proposition 65 che	micals

This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Paraformaldehyde	Х	Х	Х	-	Х

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

Moderate risk, Grade 2

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

B3 Combustible liquid D1B Toxic materials D2B Toxic materials E Corrosive material



16. Other information

Date of issue: 05/06/2024

17. Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.