

Paraformaldehyde Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/23/2021 Version: 1.0

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.1. Identification	
Product form	: Substance
Trade name	: Paraformaldehyde
Chemical name	
CAS-No.	: 30525-89-4
Product code	: 00380
Formula	: (CH2O)x
.2. Recommended use and restriction	ons on use
Recommended use	: Use as laboratory reagent, Manufacture of substances
.3. Supplier	
Supplier Polysciences 400 Valley Road Warrington, PA 18976 - United States T +1 215 343 6484 - F +1 215 343 0214 info@polysciences.com - www.polysciences	<u>s.com</u>
.4. Emergency telephone number	
Emergency number	: 24-hour emergency phone number ChemTel 1-800-255-3924
SECTION 2: Hazard(s) identification	on
.1. Classification of the substance of	
GHS US classification	
Flammable solids Category 2 Acute toxicity (oral) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category Carcinogenicity Category 2 Specific target organ toxicity (single expose 1 Specific target organ toxicity – Single expose 3, Respiratory tract irritation Hazardous to the aquatic environment – Aci Category 3 Hazardous to the aquatic environment – Ch Category 3	Suspected of causing cancer Causes damage to organssure, CategoryMay cause respiratory irritationsute HazardHarmful to aquatic lifeirronic HazardHarmful to aquatic life with long lasting effects
Signal word (GHS US) Hazard statements (GHS US)	 Danger Flammable solid Harmful if swallowed Causes skin irritation Causes serious eye irritation
Precautionary statements (GHS US)	May cause respiratory irritation Suspected of causing cancer Causes damage to organs Harmful to aquatic life Harmful to aquatic life with long lasting effects : Obtain special instructions before use.

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Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Do not breathe dust/fume/gas/mist/vapors/spray.

2.3. Other hazards which do not result in classification

No additional information available

Substances

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1.
Name

: Paraformaldehyde : 30525-89-4

CAS-No.	: 30525-89-4			
Name		Product identifier	%	GHS US classification
Paraformaldehyde		(CAS-No.) 30525-89-4	99 – 100	Flam. Sol. 2, H228 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 1, H370 STOT SE 3, H335 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	 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.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts (acute and delayed)
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention and sp	pecial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguis	hing media
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the c	hemical
Fire hazard	: Flammable solid.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and p	recautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release m	easures	
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for contain	nment and cleaning up	
For containment	: Collect spillage.	
Methods for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections	6.4. Reference to other sections	
For further information refer to section 13.		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.	
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, incl	uding any incompatibilities	
Technical measures	: Ground/bond container and receiving equipment.	
Storage conditions	: Store at room temp. Keep cool. Do not store in direct sunlight. Keep away from ignition sources. Store locked up. Store in a well-ventilated place. Keep container tightly closed.	

SEC	CTION 8: Exposure controls/personal protection	
8.1.	Control parameters	
Ра	araformaldehyde (30525-89-4)	
No additional information available		
Paraformaldehyde (30525-89-4)		
No	o additional information available	

8.2.	Appropriate engineering controls	
	iate engineering controls mental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3.	Individual protection measures/Perso	nal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and che	emical properties		
Physical state	: Solid		
Color	: Colorless		
Odor	: Mixture contains one or more component(s) which have the following odour:		
Odor threshold	: No data available		
pH	: No data available		
Melting point	: No data available		
Freezing point	: Not applicable		
Boiling point	: No data available		
Flash point	: Not applicable		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: Flammable solid.		
Vapor pressure	: No data available		
Relative vapor density at 20°C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Partition coefficient n-octanol/water (Log Pow)	: No data available		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosion limits	: Not applicable		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
9.2. Other information			

No additional information available

SECT	FION 10: Stability and reactivity		
10.1.	Reactivity		
Flamma	able solid.		
10.2.	Chemical stability		
Stable	Stable under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dan	No dangerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.			
10.5.	Incompatible materials		
No add	ditional information available		
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECT	FION 11: Toxicological information		
11.1.	Information on toxicological effects		
Acute	e toxicity (oral) : H	Harmful if swallowed.	

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Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Paraformaldehyde (30525-89-4)	
LD50 oral rat	800 mg/kg
LC50 Inhalation - Rat	1070 mg/l/4h
ATE US (oral)	800 mg/kg body weight
ATE US (vapors)	1070 mg/l/4h
ATE US (dust, mist)	1070 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Causes damage to organs. May cause respiratory irritation.
Paraformaldehyde (30525-89-4)	
STOT-single exposure	Causes damage to organs. May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
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SECTION 12: Ecological informati	on
12.1. Toxicity	
Ecology - general	: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Paraformaldehyde (30525-89-4)	
LC50 fish 1	60 mg/l
2.2. Persistence and degradability	
No additional information available	
I2.3. Bioaccumulative potential	

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

Transport document description	: UN2213 Paraformaldehyde, 4.1, III
In accordance with DOT	
Department of Transportation (DOT)	
ECTION 14: Transport information	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
3.1. Disposal methods	
ECTION 13: Disposal consideration	ns

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	: UN2213
	: Paraformaldehyde
Class (DOT)	: 4.1 - Class 4.1 - Flammable Solid 49 CFR 173.124
	: III - Minor Danger
Hazard labels (DOT)	: 4.1 - Flammable solid
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Special Provisions (49 CFR 172.102)	 A1 - Single packaging are not permitted on passenger aircraft. B120 - The use of flexible bulk containers conforming to the requirements in subpart R and subpart S of part 178 of this subchapter is permitted. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group III or T7 for solid substances of packing group II or T7 for solid substances of packing group II or T7 for solid substances of packing group III or T7. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 151
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
-	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
0 3 1 (()	: 133
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Not applicable	
Fransport by sea	
	: UN 2213 PARAFORMALDEHYDE, 4.1, III
- (-)	: 2213
Proper Shipping Name (IMDG)	: PARAFORMALDEHYDE
,	: 4.1 - Flammable solids, self-reactive substances and solid desensitized explosives
	: III - substances presenting low danger
Limited quantities (IMDG)	: 5 kg
Air transport	
Transport document description (IATA)	: UN 2213 Paraformaldehyde, 4.1, III
	: 2213
Proper Shipping Name (IATA)	: Paraformaldehyde
Class (IATA)	: 4.1 - Flammable Solids; Self-Reactive Substances; Polymerizing Substances; and Solid

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Packing group (IATA)	: III - Low danger	
SECTION 15: Regulatory int	formation	
15.1. US Federal regulations		
Paraformaldehyde (30525-89-4)		
Listed on the United States TSCA Not subject to reporting requirement		
CERCLA RQ		1000 lb
Paraformaldehyde (30525-89-4)		
Listed on the United States TSCA Not subject to reporting requirement		
CERCLA RQ	1000 lb	

15.2. International regulations

CANADA

Paraformaldehyde (30525-89-4)		
Listed on the Canadian DSL (Domestic Substances List)		
Paraformaldehyde (30525-89-4)		
Listed on the Canadian DSL (Domestic Substances List)		

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

Paraformaldehyde (30525-89-4)		
C C	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List	

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Paraformaldehyde(30525-89-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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SDS US (GHS HazCom 2012)

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