

# SAFETY DATA SHEET

	UAI ETT DATA		
Creation Date 11-October-2010	Revision Date 19-Janua	ry-2018	<b>Revision Number</b> 5
	1. Identificat	ion	
Product Name	Paraformaldehyde		
Cat No. :	AC169650000; AC169650010; AC169650025; AC169650100; AC169650250		
AS-No ynonyms	30525-89-4 Formaldehyde polymer; Polyoxymethylene; Polyformaldehyde		
Recommended Use Ises advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use		
Details of the supplier of the safe	ty data sheet		
Company mporter/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Fel: 1-800-234-7437 Emergency Telephone Number	Acros Organics One Reagent Lane Fair Lawn, NJ 07410	<b>Manufacturer</b> Fisher Scientific One Reagent La Fair Lawn, NJ 07 Tel: (201) 796-71	'410
For information <b>US</b> call: 001-800-AC Emergency Number <b>US:</b> 001-201-79	CROS-01 / <b>Europe</b> call: +32 14 57 52 <sup>-/</sup> 96-7100 / <b>Europe:</b> +32 14 57 52 99 24-9300 / <b>Europe:</b> 001-703-527-3887	11	
	2. Hazard(s) identi	ification	
Classification WHMIS 2015 Classification	Classified as hazardous under the	Hazardous Products Regula	ations (SOR/2015-17)
Flammable solids Acute oral toxicity Acute Inhalation Toxicity Skin Corrosion/irritation Serious Eye Damage/Eye Irritatio Skin Sensitization Carcinogenicity Specific target organ toxicity (sin	Category Category	y 4 y 4 y 2 y 1 y 1	

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Skin Sensitization Carcinogenicity Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Combustible Dusts

Label Elements

Signal Word Danger

**Hazard Statements** 

Category 3

Category 1

Flammable solid May form combustible dust concentrations in air Harmful if swallowed or if inhaled Causes skin irritation May cause an allergic skin reaction Causes serious eye damage 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

Wear protective gloves/protective clothing/eye protection/face protection

- Keep container tightly closed
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Ground/bond container and receiving equipment

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

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

#### Response

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

IF ON SKIN: Wash with plenty of soap and water

IF INHALED: Remove person to fresh air and keep comfortable for breathing

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/doctor

Rinse mouth

Take off contaminated clothing

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

#### 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

## 3. Composition/Information on Ingredients

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

### 4. First-aid measures

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**Environmental Precautions** 

Skin Contact	Wash off immediately with	plenty of water for at least 15 n	ninutes. Obtain medical attentio	
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 Notes to Physician	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 Treat symptomatically			
	5. Fire-fightir	a moasuros		
Suitable Extinguishing Media	<u> </u>	esistant foam, dry chemical or c	carbon dioxide. Cool closed	
Unsuitable Extinguishing Media	No information available			
Flash Point	71 °C / 159.8 °F			
Method -	No information available			
Autoignition Temperature	300 °C / 572 °F			
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	73% 7.0% ct No information available No information available			
Specific Hazards Arising from the C Flammable. Containers may explode		ersed in air may ignite.		
Hazardous Combustion Products Carbon monoxide (CO) Carbon dioxid Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.	ons for Firefighters	emand, MSHA/NIOSH (approv	ed or equivalent) and full	
NFPA Health 3	Flammability 2	Instability 1	Physical hazards N/A	
	6. Accidental rel	ease measures		
Personal Precautions	line menses al must a stirle and		tilation. Avoid dust formation.	

information. Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in Up suitable, closed containers for disposal. Remove all sources of ignition.

Should not be released into the environment. See Section 12 for additional ecological

	7. Handling and storage
L 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 limitsestablished 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. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Personal protective equipment

Eye Protection Hand Protection	Goggles Protective gloves		
Glove material	Breakthrough time	Glove thickness	Glove comments
Natural rubber	See manufacturers	-	Splash protection only
Nitrile rubber	recommendations		
Neoprene			
PVC			

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

#### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

#### **Environmental exposure controls**

No information available.

#### **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 Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula

73% 7.0% 1.2 mmHg @ 25 °C Not applicable 1.46 No information available 300 °C / 572 °F No information available Not applicable (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. Toxicological information

Acute Toxicity

Product Information	n					
Oral LD50		Category 4. Al	Category 4. ATE = 300 - 2000 mg/kg.			
Dermal LD50		Based on ATE	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.			
Mist LC50		Category 4. AT	Category 4. ATE = 1 - 5 mg/l.			
Component Information	ation					
Componer	nt	LD50 Oral		LD50 Dermal	LC50 I	nhalation
Paraformaldel	hyde	LD50 = 800 mg/kg	(Rat)	Not listed	LC50 = 1070	mg/m³(Rat)4 h
Toxicologically Syn	nergistic	No information	available		1	
Products	U					
Delayed and immed	liate effects	s as well as chronic	effects from short a	nd long-term expo	sure	
Irritation		Irritating to eye	s, respiratory system	and skin		
Sensitization		No information	No information available			
Carcinogenicity		The table below	The table below indicates whether each agency has listed any ingredient as a carcinogen			
Component	CAS-N	lo IARC	NTP	ACGIH	OSHA	Mexico
Paraformaldehyde	30525-8	9-4 Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		Mutagenic effe	cts have occurred in	experimental anima	ls.	
Reproductive Effec	ts	No information	No information available.			
Developmental Effe	ects	No information	No information available.			
Teratogenicity		No information	No information available.			

STOT - single exposure STOT - repeated exposure	Respiratory system None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	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
Endocrine Disruptor Information	No information available
Other Adverse Effects	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	Ecol	logical	inform	nation
12.	LCO	logical		lation

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 Degrada	bility No information	on available		
Bioaccumulation/ Accum	ulation No information	on available.		
Mobility	No information available.			
	13. Di	sposal considera	ations	
Naste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as 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	111		
TDG			
UN-No	UN2213		
Proper Shipping Name	PARAFORMALDEHYDE		
Hazard Class	4.1		
Packing Group	111		
IATA			
UN-No	UN2213		
Proper Shipping Name	PARAFORMALDEHYDE		
Hazard Class	4.1		
Packing Group	111		
IMDG/IMO			
UN-No	UN2213		
Proper Shipping Name	PARAFORMALDEHYDE		
Hazard Class	4.1		
Packing Group			
15. Regulatory information			

International Inventories

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

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	11-October-2010 19-January-2018 19-January-2018 This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.			

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