

and Category State						
Identification of the Substance: Disodium dihydrogenpyrophosphate CAS Number: 7758-16-9 Recommended Use: Drilling Fluid Additive Restrictions on Use: - Supplier: Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1 Phone Number: 780-962-9490 Emergency Phone: CHEMTREC 1-800-424-9300, 24/7 Classification of the Substance or Mixture Classification coto OSHA "Hazard Communication Standard" (29 CFR 1910.1200) Classification A.3 Section Hazard Class Section abbreviations: see SECTION 16 Label Elements Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200) Signal Word: Warning Pictograms GHS07 Mazard Statements Kase serious eye irritation. Hazard Statements Fazard Statements H319: Causes serious eye irritation.			Section 1: IDENT	IFICATION		
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		v Statements	Causes serious eye	, innation.		
P264: Wash face and hands thoroughly after handling	-		Wash face and her	de thorough	v after handling	
	-		Wash face and hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face			
protection.					······································	



SAFETY DATA SHEET		
P305+P351+P338:	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313:	If eye irritation persists: Get medical advice/attention.	
Other Hazards		
Results of BT and vPvB Assessment:	According to the results of its assessment, this substance is not a PBT or a vPvB.	
Endocrine Disrupting Potential:	Not listed	
Section 3: COMPOSITION / INFORMATION ON INGREDIENTS		
Substances		

Substances	
Name of Substance:	Disodium dihydrogenpyrophosphate
Identifiers	
CAS No	7758-16-9
Molecular Formula:	H407P2.2Na
Molar Mass:	207.2 g/mol
Purity:	> 93%

Section 4: FIRST-AID MEASURES

Description of First Aid Measures		
Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.		
Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.		
Wash with plenty of soap and water.		
Rinse cautiously with water for several minutes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.		
Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.		
None		
Cough, pain, choking, and breathing difficulties. Causes eye irritation.		
None		



Section 5: FIRE-FIGHTING MEASURES		
Extinguishing Media:	Coordinate firefighting measures to the fire surroundings.	
Special Hazards Arising from the Substance or Mixture:	Hazardous decomposition products: Section 10.	
Hazardous Combustion Products:	Phosphorus oxides (PxOy), gas/ vapor, toxic, irritant vapors / gases.	
Advice for Firefighters:	Non-combustible. In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.	
Special Protective Equipment for Firefighters:	Use suitable breathing apparatus, chemical protection suit	

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel:	Remove persons to safety. Ventilate affected area. Control of dust. Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.
For Emergency Responders:	Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.
Environmental Precautions:	Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.
Methods and Material for Cont	ainment and Cleaning Up
Advice on How to Contain a Spill:	Take up mechanically
Advice on How to Clean up a Spill:	Collect spillage
Appropriate Containment Techniques:	Neutralization techniques.
Other Information Relating to Spills and Releases:	Place in appropriate containers for disposal. Ventilate affected area.
Reference to Other Sections:	Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.



Section 7: HANDLING AND STORAGE

Precautions for Safe Handling

	1
Measures to Prevent Fire as well as Aerosol and Dust Generation:	Use local and general ventilation. Removal of dust deposits.
Specific Notes/Details:	Dust deposits may accumulate on all deposition surfaces in a technical room.
Handling of Incompatible Substances or Mixtures:	Do not mix with alkali.
Measures to Protect the Environment:	Avoid release to the environment.
Advice on General Occupational Hygiene:	Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Wash hands after use. Preventive skin protection (barrier creams/ointments) is recommended.
Conditions for Safe Storage, I	ncluding any Incompatibilities
Conditions for Safe Storage, I Flammability Hazards:	ncluding any Incompatibilities None
U 7	
Flammability Hazards: Incompatible Substances or	None
Flammability Hazards: Incompatible Substances or Mixtures: Protect Against External	None Incompatible materials: see section 10.
Flammability Hazards: Incompatible Substances or Mixtures: Protect Against External Exposure, Such as: Consideration of Other	None Incompatible materials: see section 10. Heat, humidity.
Flammability Hazards: Incompatible Substances or Mixtures: Protect Against External Exposure, Such as: Consideration of Other Advice:	None Incompatible materials: see section 10. Heat, humidity. This information are not available.
Flammability Hazards: Incompatible Substances or Mixtures: Protect Against External Exposure, Such as: Consideration of Other Advice: Ventilation Requirements: Specific Designs for Storage Rooms or Vessels:	None Incompatible materials: see section 10. Heat, humidity. This information are not available. Provision of sufficient ventilation. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep cool.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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Control Parameters	
Occupational Exposure Limit Values (Workplace Exposure Limits): Exposure Controls	This information is not available.
Appropriate Engineering Controls:	Use local and general ventilation.
Individual Protection Measures	s (Personal Protective Equipment)
Eye/Face Protection:	Wear eye/face protection



SAFETY DATA SHEET Hand Protection Protective Gloves		
Material	Material Thickness	Breakthrough Times of the Glove Material
IIR: isobutene-isoprene (butyl) rubber	≥ 0,7 mm	>480 minutes (permeation: level 6)
Body Protection:	which are tested acc tightness/impermeat use the gloves again well.	s. Chemical protection gloves are suitable, ording to EN 374. Check leak- bility prior to use. In the case of wanting to a, clean them before taking off and air them or use against solid particulates.
Respiratory Protection:	In case of inadequat	e ventilation wear respiratory protection. ce (EN 143). P1 (filters at least 80 % of
Environmental Exposure Controls:		blor code: White). tainer to avoid environmental away from drains, surface and ground

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties		
Appearance		
Physical State:	Solid	
Color:	White	
Odor:	Odorless	
Other Safety Parameters		
pH (Value):	3.5 – 4.5	
Melting Point/Freezing Point:	900°C	
Boiling Point or Initial Boiling Point and Boiling Range:	Not determined	
Flash Point:	Not applicable	
Evaporation Rate:	Not determined	
Flammability (Solid, Gas):	Non-combustible	
Explosive Limits		
Explosion Limits of Dust Clouds:	Not determined	
Vapor Pressure:	Not determined	

SAPP



SAFETY DATA SHEET	
Density:	1.86 g/cm³
Relative Density:	This information is not available.
Relative Vapour Density:	This information is not available.
Solubility(ies)	
Water Solubility:	145 g/l
Partition Coefficient	
N-Octanol/Water (log KOW):	Not relevant (inorganic)
Auto-Ignition Temperature:	Not determined
Decomposition Temperature:	Not relevant
Viscosity:	Not relevant (solid)
Explosive Properties:	None
Oxidizing Properties:	None
Information for Relevant Hazard Classes According to GHS:	Hazard classes acc. to GHS (physical hazards): not relevant
Other Information:	There is no additional information

Section 10: STABILITY AND REACTIVITY		
Reactivity:	This material is not reactive under normal ambient conditions.	
Chemical Stability:	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. See below "Conditions to avoid.	
Possibility of Hazardous Reactions:	No known hazardous reactions.	
Conditions to Avoid:	Keep away from heat. Protect from moisture.	
Incompatible Materials:	Bases	
Hazardous Decomposition Products:	Hazardous combustion products: see section 5. As a result of heating: phosphorus oxides (PxOy)	

Information on Toxicological Effects:	If not otherwise specified the classification is based on: Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).
Classification acc. to OSHA "H	lazard Communication Standard" (29 CFR 1910.1200)
Acute Toxicity:	Shall not be classified as acutely toxic (dermal).



Exposure Route	Endpoint	Value	Species	Method
Dermal	LD0	>2,000 mg/kg	Rat	OECD Guideline 402
Skin Corrosion/Irritation:		Shall not be classified as corrosive/irritant to skin. (ECHA, OECD Guideline 404)		
Serious Eye Damage/Eye Irritation:	Causes serio	Causes serious eye irritation. (ECHA, EU method B.5)		
Skin Sensitization:	Shall not be o Guideline 429		in sensitiz	er. (ECHA, OECD
Respiratory Sensitization:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.			
Germ Cell Mutagenicity:	Shall not be classified as germ cell mutagenic. (ECHA, OECD Guideline 487, OECD Guideline 490)			
Carcinogenicity				
IARC Monographs:	Not listed			
National Toxicology Program (United States):	Not listed			
OSHA Carcinogens:	Not listed			
Reproductive Toxicity:	Shall not be c	lassified as a re	productive	toxicant. (ECHA)
Specific Target Organ Toxicity – Single Exposure:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.			
Specific Target Organ Toxicity – Repeated Exposure:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.			
Chronic Toxicity				
Exposure Route	Endpoint	Value	Specie	
Oral	NOAEL	500 mg/kg bw/da	ay Rat	OECD Guideline 408
Aspiration Hazard:	Shall not be c	lassified as pres	enting an	aspiration hazard.
Section 12: ECOLOGICAL INFORMATION				

Toxicity			
Aquatic Toxicity (Acute): Base	ed on available da	ata, the classification criteria are not met.
Endpoint	Exposure Time	Value	Species
LC50	96h	>100 mg/l	Ranbow trout (Oncorhynchus mykiss)
EC50	48h	>100 mg/l	Daphnia magna
ErC50	72h	>100 mg/l	Algae (Desmodesmus subspicatus)



Aquatic Toxicity (Chronic):		Based on available data, the classification criteria are not met.			
Endpoint	Exposure T	Time	Value	Species	
EC50	3h		>1,000 mg/l	Activated sludge of a predominantly domestic sewage	
NOEC	72h		>100 mg/l	Algae (Desmodesmus subspicatus)	
NOEC	3h		>1,000 mg/l	Activated sludge of a predominantly domestic sewage	
Persistence and Degradability					
Biodegradation:			study does not ne tance is inorganic	eed to be conducted because the c.	
Persistence:		The study does not need to be conducted because the substance is inorganic.			
Bioaccumulative Potential: N		No d	No data available		
N-octanol/water (log KOW): No		Not ı	Not relevant (inorganic).		
Mobility in Soil:		No data available			
Results of PBT an Assessment:	d vPvB	According to the results of its assessment, this substance is not a PBT or a vPvB.		ts of its assessment, this substance is	
Other Adverse Eff	ects:	Not listed. This information is not available.		ation is not available.	
Remarks:		None	Э		

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods:	Dispose of contents/container in accordance with local/regional/national/international regulations.
Sewage Disposal-Relevant Information:	Do not empty into drains.
Waste Treatment of Containers/Packages:	Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.
Remarks:	Please consider the relevant national or regional provisions.

Section 14: TRANSPORT INFORMATION			
UN Number:	Not assigned		
UN Proper Shipping Name:	-		
Transport Hazard Class(es):	-		
Packing Group:	-		
Environmental Hazards:	-		
Special Precautions for User:	-		
Transport in Bulk According to IMO Instruments:	-		



Information for Each of the UN Model Regulations

Transport of Dangerous Goods by Road or Rail (49 CFR US DOT) Additional Information: Not subject to transport regulations.

Section 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations Specific for the Product in Question

National Regulations (United States)

Toxic Substance Control Act Substance is listed as "ACTIVE" (TSCA):

Superfund Amendment and Reauthorization Act (SARA TITLE III)

Not listed
Not listed
Response, Compensation, and Liability Act (CERCLA)
Not listed
Not listed
stance List
Not listed
Not listed
Not listed



Industry or Sector Specific Available Guidance(s)

NPCA-HMIS® III:	NPCA-HMIS® III: Hazardous Materials Identification System. American Coatings Association.		
Category	Rating	Description	
Chronic	1	None	
Health	2	Temporary or minor injury may occur	
Flammability	0	Material that will not burn under typical fire conditions	
Physical Hazard	0	Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive	
Personal Protection	-	-	
NFPA® 704 National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).			
Category	Degree of Hazard	Description	
Flammability	0	Material that will not burn under typical fire conditions	
Health	0	Material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material	
Instability	0	material that is normally stable, even under fire conditions	
Special Hazard	-	-	
Chemical Safety Assessment:	For th carrie	iis substance a chemical safety assessment has been d out.	
Section 16: OTHER INFORMATION			

Abbreviations and Acronyms	
Abbr.	Descriptions of Used Abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval



SAFETY DATA SHEET	
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50% lethality during a specified time interval
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NPCA-HMIS®III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent and Very Bioaccumulative
References and Sources for Data:	OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200. Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA). Ises (Code and Full Text as Stated in Section 2 and 3)
	Text
VV40	

H319 Causes serious eye irritation.



The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by:	Bri-Chem Supply Ltd.
Revision Date:	August 6, 2024