

MATERIAL SAFETY DATA SHEET

CAS Number: 7778-50-9

Version:01

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PRODUCT NAME: POTASSIUM DICHROMATE

1. IDENTIFICATION:

Product Code : 90502, 13056, 90211, 91608, 93182, 98966

Company Name ADVENT CHEMBIO PRIVATE LIMITED

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: 022-27690837 **Company Phone Number**

HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Oxidizing solids : Category 1

Health hazards

Acute toxicity, Oral : Category 4

Acute toxicity, Dermal : Category 4

Acute toxicity, Inhalation : Category 4

Skin corrosion : Category 2

Serious eye damage : Category 2

Respiratory sensitization : Category 2

Skin sensitization Category 1

Germ cell mutagenicity : Category 2

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ

toxicity - single exposure, : Category 2

Oral

Specific target organ

toxicity - repeated : Category 2

exposure, Oral

Short-term (acute) aquatic

: Category 1 hazard

Long-term (chronic) aquatic

: Category 2 hazard



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Labels elements

Hazard symbol :











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Signal word : Danger

Hazard statement May intensify fire; oxidizer.

Toxic if swallowed.

Harmful in contact with skin.

Causes severe skin burns and eye damage May cause an allergic skin reaction.

Fatal if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause genetic defects.

May cause cancer.

May damage fertility. May damage the unborn child.

Causes damage to organs (Cardio-vascular system) through prolonged or repeated exposure

if inhaled.

Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention: Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Other hazards which do not : result in GHS classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.



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3. COMPOSITION/INFORMATION ON INGRADIENTS:

Ingredient CAS Number Percent Hazardous

Potassium Dichromate 7778-50-9 NLT 99.0% Yes

4. FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

: vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs

2.)

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

The most important known symptoms and effects are described in the labelling (see section

Inhalation : provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

Indication of immediate

medical attention and special treatment needed

: No data available.

5. FIRE FIGHTING MEASURES:

General information : No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

media

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising

from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance

to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in

flammability hazard. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special firefightingUse water spray to keep fire-exposed containers cool. Water may be ineffective in fighting

procedures : the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Special protective Firefighters must use standard protective equipment including flame retardant coat, helmet

equipment for fire-fighters : with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

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Methods and material for containment and cleaning

up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical

waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if

large amounts are involved.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do

so. Avoid discharge into drains, water courses or onto the ground.

HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container receiving equipment. Use electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

Protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry,

Conditions for safe storage, including any

well-ventilated place.

incompatibilities

EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

General information

Appropriate engineering

controls

No data available

Individual protection measures, such as personal protective equipment

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator. Chemical

respirator with organic vapor cartridge.



Hygiene measures

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Always observe good personal hygiene measures, such as washing after handling the

material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

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Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Orange red crystals or crystalline powder.

Odor : Odorless

Solubility : ca.29,4 g/l at 20 °C Miscible in water.

Formula : K2Cr2O7

Molecular Weight : 294.18 g/mol

Specific Gravity ca.2,680 g/cm3 at 20 °C

ca.2,7 at 20 °C

pH : 3,5 - 5,0 at 29,4 g/l at 25 °C

% Volatiles by volume @

21C (70F)

: No data available.

Boiling Point : > 500 °C at 1.013 hPa – Decomposition.

Melting Point : 398°C

Flash Point : Not applicable.

Vapor Density (Air=1) : No data available.

Vapor Pressure (mm Hg) : Not applicable

Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No data available.

Chemical stability : Material is stable under ambient conditions..

Risk of explosion with: Iron magnesium hydrazine and derivatives hydroxylamine

ammonium nitrate Boron Acetic anhydride Oxidizable substances Reducing agents sulfuric acid silicon Exothermic reaction with: anhydrides phosphides Sulfides nitrides Fluorine Risk

Possibility of hazardous

reactions

of ignition or formation of inflammable gases or vapors with: organic combustible substances glycerol Powdered metals hydrides alkali compounds Acetone with sulfuric acid

Generates dangerous gases or fumes in contact with: hydrochloric acid

Conditions to avoid : No data available.

Incompatible materials : No data available.

Hazardous decomposition

products

: In the event of fire: see section 5



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11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : Irritating. May cause nausea, stomach pain and vomiting.

Inhalation May cause irritation to the mucous membranes and upper respiratory tract. May cause

central nervous system effects

Skin contact Causes mild skin irritation

Eye contact : Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 Rat - female - 90,5 mg/kg

Dermal Product No data available.

Inhalation Product LC50 Rat - female - 4 h - 0,083 mg/l - dust/mist

Repeated dose toxicity

Product

No data available.

Causes serious eye damage

Skin corrosion/irritation

Product

Prolonged or repeated skin contact may cause drying, cracking, or irritation

Serious eye damage/eye

irritation Product

Respiratory or skin

sensitization Product

May cause allergic respiratory and skin reactions.

Carcinogenicity Product

Presumed to have carcinogenic potential for humans.

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

: No carcinogenic components identified.

: No carcinogenic components identified.

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050

No carcinogenic components identified.

Germ cell mutagenicity : May cause genetic defects.

In vitro Product No data available.

Reproductive toxicity

Product

May damage the unborn child. May damage fertility.

Specific target organ

toxicity - single exposure

: May cause respiratory irritation. - Respiratory system.

Product

Specific target organ

toxicity - repeated exposure Product

: Inhalation - Causes damage to organs through prolonged or repeated exposure.



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Aspiration hazard Product : No data available.

Other effects : No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Fish Product

Product

Acute hazards to the aquatic environment

: LC50 - Danio rerio (zebra fish) - 58,5 mg/l.

Aquatic invertebrates

: EC50 - Daphnia magna (Water flea) - 0,035 mg/l.

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates

Product

No data available.

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and degradability

Biodegradation Product

The methods for determining the biological degradability are not applicable to inorganic

substances.

BOD/COD ratio Product

No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

Mobility in soil

: 17,4

Partition coefficient n-

octanol / water (log Kow)

Product

w)

Other adverse effects

No data available.

No data available.

No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container

: is emptied.



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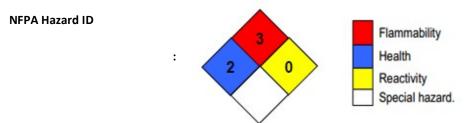
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14. TRANSPORT INFORMATION:					
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 3086	Potassium Dichromate	6.1 (5.1)	II	Yes
IMDG	UN 3086	Potassium Dichromate	6.1 (5.1)	II	Yes
IATA	UN 3086	Potassium Dichromate	6.1 (5.1)	II	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 20/05/2023

Version : 01

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