PYRIDINIUM DICHROMATE EXTRA PURE **MSDS**

LABORATORY REAGENTS CAS No: 20039-37-6 MSDS & FINE CHEMICALS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance

EC no : 243-478-8 CAS No : 20039-37-6 05489 Product code

Chemical structure

• H₂Cr₂O₇

: PDC Synonyms

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

Uses advised against

No additional information available

Details of the supplier of the safety data sheet 1.3.

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SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable solids, H228

Category 1

Oxidising Solids,

H272

Category 2

H314

Skin corrosion/irritation, Category 1

Carcinogenicity

H350i

(inhalation) Category 1B Hazardous to the aquatic

H410

environment — Chronic Hazard, Category 1

Full text of classification categories and H statements: see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.1; R49

F; R11 O; R8 C; R34 N; R50/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)









GHS02

GHS05

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H228 - Flammable solid

H272 - May intensify fire; oxidiser

H314 - Causes severe skin burns and eye damage

H350i - May cause cancer by inhalation

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

P273 - Avoid release to the environment

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%
PYRIDINIUM DICHROMATE Extra Pure	(CAS No) 20039-37-6 (EC no) 243-478-8	100

Full text of R- and H-phrases: see section 16

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3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or

artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously

with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : May cause cancer by inhalation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May intensify fire; oxidiser. Flammable solid.

Explosion hazard : Heating may cause a fire or explosion.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clear up rapidly by scoop or vacuum.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing.

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Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture. Store in a well-ventilated place. Keep away from ignition

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 376.2 g/mol

Colour : Orange yellow crystalline.

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 152 - 153 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Vapour pressure at 50 °C : 0.0000001 hPa at 25 °C

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Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1.713 g/cm³

Solubility : Water: 943 g/l at 20 °C - OECD Test Guideline 105 - clear

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Self-heating: may catch fire. Flammable solid.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Overheating. Open flame. Heat. Sparks. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage. Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer by inhalation.

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

exposure)

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Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 3085 UN-No. (IMDG) : 3085 UN-No.(IATA) : 3085 UN-No.(ADN) : 3085 UN-No. (RID) : 3085

14.2. UN proper shipping name

Proper Shipping Name (ADR) : OXIDIZING SOLID, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG) : OXIDIZING SOLID, CORROSIVE, N.O.S.
Proper Shipping Name (IATA) : OXIDIZING SOLID, CORROSIVE, N.O.S.
Proper Shipping Name (ADN) : OXIDIZING SOLID, CORROSIVE, N.O.S.

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Proper Shipping Name (RID) : OXIDIZING SOLID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S., 5.1 (8), II, (E),

ENVIRONMENTALLY HAZARDOUS

Transport document description (IMDG) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S., 5.1 (8), II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S., 5.1, II, ENVIRONMENTALLY

HAZARDOUS

Transport document description (ADN) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S., 5.1 (8), II,

ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) : UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S., 5.1 (8), II,

ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 5.1 (8)
Danger labels (ADR) : 5.1, 8



IMDG

Transport hazard class(es) (IMDG) : 5.1 (8)
Danger labels (IMDG) : 5.1, 8



IATA

Transport hazard class(es) (IATA) : 5.1 (8) Hazard labels (IATA) : 5.1, 8



ADN

Transport hazard class(es) (ADN) : 5.1 (8)
Danger labels (ADN) : 5.1, 8



RID

Transport hazard class(es) (RID) : 5.1 (8)
Danger labels (RID) : 5.1, 8

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14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : OC2
Special provision (ADR) : 274
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC06

Mixed packing provisions (ADR) : MP2
Portable tank and bulk container : T3

instructions (ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAN
Tank special provisions (ADR) : TU3
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages : V11

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV24

Hazard identification number (Kemler No.) : 58

Orange plates

58 3085

Tunnel restriction code (ADR) : E EAC code : 1W

- Transport by sea

: 274 Special provision (IMDG) Limited quantities (IMDG) : 1 kg Excepted quantities (IMDG) : E2 : P002 Packing instructions (IMDG) : IBC06 IBC packing instructions (IMDG) IBC special provisions (IMDG) : B2 Tank instructions (IMDG) : T3 : TP33 Tank special provisions (IMDG)

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EmS-No. (Fire): F-AEmS-No. (Spillage): S-QStowage category (IMDG): BStowage and handling (IMDG): H1

Segregation (IMDG) : SG38, SG49, SG60

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y544
PCA limited quantity max net quantity : 2.5kg

(IATA)

PCA packing instructions (IATA) : 558
PCA max net quantity (IATA) : 5kg
CAO packing instructions (IATA) : 562
CAO max net quantity (IATA) : 25kg
Special provision (IATA) : A3
ERG code (IATA) : 5C

- Inland waterway transport

Classification code (ADN) : OC2
Special provisions (ADN) : 274
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : OC2
Special provision (RID) : 274
Limited quantities (RID) : 1kg
Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC06

Mixed packing provisions (RID) : MP2
Portable tank and bulk container : T3

instructions (RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : SGAN Special provisions for RID tanks (RID) : TU3

Transport category (RID) : 2

Special provisions for carriage – Packages : W11

(RID)

Special provisions for carriage – Loading : CW24

and unloading (RID)

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 58

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: TP33

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

PYRIDINIUM DICHROMATE Extra Pure is not on the REACH Candidate List

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PYRIDINIUM DICHROMATE Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1B	Carcinogenicity (inhalation) Category 1B
Flam. Sol. 1	Flammable solids, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
H228	Flammable solid
H272	May intensify fire; oxidiser
H314	Causes severe skin burns and eye damage
H350i	May cause cancer by inhalation
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R34	Causes burns
R49	May cause cancer by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R8	Contact with combustible material may cause fire
С	Corrosive
F	Highly flammable
N	Dangerous for the environment
0	Oxidising

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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