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# 1. Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

**Trade name**: 2,4-DINITROPHENOL INDICATOR AR

**Product code**: 31515

**Identification of the product** : 2,4-Dinitrophenol Indicator AR

CAS No: 51-28-5

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

**Use**: Industrial. For professional use only.

## 1.3. Details of the supplier of the safety data sheet

**Company identification**: MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2<sup>nd</sup> Floor, Mumbai – 400 002 (INDIA) Tel:

+91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442.

Email: info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,

Kulgaon, Badlapur (E), Dist.-Thane-421 503.

# 1.4. Emergency telephone number

Emergency number: +91 22 4066 8111 (10:00am - 6:00 pm)

## 2. Hazards identification

## 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), H301

Category 3

Acute toxicity (dermal), H311

Category 3

Acute toxicity (inhal.), H331

Category 3

Specific target organ toxicity — Repeated H373

exposure, Category 2

Hazardous to the aquatic

environment — Acute

Hazard, Category 1 H400

## Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

# Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display

Hazard pictograms:

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Signal word : Danger

**Hazard statements**: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

**Precautionary statements**: P261 - Avoid breathing vapours, spray, dust, fume, gas.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor

P311 - Call a POISON CENTER/doctor

## 2.3. Other hazards

No additional information available

## 3. Composition/information on ingredients

**3.1. Substances**: 2.4-DINITROPHENOL INDICATOR AR

CAS-No.: 51-28-5

Substance.

Contains no other components or impurities which will influence the classification of the product.

## 4. First aid measures

## 4.1. Description of first aid measures

First-aid measures after inhalation: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact: Immediately call a POISON CENTER/doctor.

Take off immediately all contaminated clothing. Wash with plenty of water/....

First-aid measures after eye contact: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. Obtain emergency medical attention.

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

Symptoms/effects: May cause damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation: Toxic if inhaled.

Symptoms/effects after skin contact: Toxic in contact with skin.

Symptoms/effects after ingestion: Toxic if swallowed.

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

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Treat symptomatically.

## 5. Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media: Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

No additional information available

## **5.3.** Advice for firefighters

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

## 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: Ventilate area.

## **6.2.** Environmental precautions

Very toxic to aquatic life.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

#### **6.4.** Reference to other sections

No additional information available

## 7. Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures: Do not eat, drink or smoke when using this product. 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 a well-ventilated place. Keep container tightly closed.

#### 7.3. Specific end use(s)

No additional information available

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# 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: [In case of inadequate ventilation] wear respiratory protection.

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Odour threshold: No data available

**pH**: No data available

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

Melting point: 108 - 112 °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 **Relative vapour density at 20** °C: 6.35 **Relative density**: No data available

**Density** : 1.683 g/cm<sup>3</sup>

**Solubility**: Water: Partially soluble in water

**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

## 10. Stability and reactivity

## 10.1. Reactivity

No additional information available

10.2. Chemical stability

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Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No additional information available

## 10.4. Conditions to avoid

Air contact. Direct sunlight. Moisture.

# 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

No additional information available

# 11. Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:

Toxic if inhaled.

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified Reproductive toxicity: Not classified STOT-single exposure: Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated

exposure.

Additional information: There are potential chronic health effects to consider

Aspiration hazard: Not classified

Potential adverse human health effects and symptoms: Toxic if swallowed. Toxic in

contact with skin.

## 12. Ecological information

# 12.1. Toxicity

Ecology - water: Very toxic to aquatic life.

# 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

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## 12.6. Other adverse effects

No additional information available

# 13. Disposal considerations

## 13.1. Waste treatment methods

Product/Packaging disposal

Recommendations: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Hazardous waste due to toxicity.

## 14. Transport information

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

## **14.1. UN number**

UN-No. (ADR): 1320 UN-No. (IMDG): 1320 UN-No. (IATA): 1320 UN-No. (ADN): 1320 UN-No. (RID): 1320

## 14.2. UN proper shipping name

Proper Shipping Name (ADR): DINITROPHENOL, WETTED Proper Shipping Name (IMDG): DINITROPHENOL, WETTED

Proper Shipping Name (IATA): Dinitrophenol, wetted

Proper Shipping Name (ADN): DINITROPHENOL, WETTED Proper Shipping Name (RID): DINITROPHENOL, WETTED

Transport document description (ADR): UN 1320 DINITROPHENOL, WETTED, 4.1

(6.1), I, (B), ENVIRONMENTALLY

# HAZARDOUS

Transport document description (IMDG): UN 1320 DINITROPHENOL, WETTED, 4.1 (6.1), I, MARINE

## POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA): UN 1320 Dinitrophenol, wetted, 4.1, I,

#### ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN): UN 1320 DINITROPHENOL, WETTED, 4.1 (6.1), I, ENVIRONMENTALLY

## HAZARDOUS

Transport document description (RID): UN 1320 DINITROPHENOL, WETTED, 4.1 (6.1), I, ENVIRONMENTALLY

# **HAZARDOUS**

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# 14.3. Transport hazard class(es)

**ADR-** Transport hazard class(es) (ADR): 4.1 (6.1)

Danger labels (ADR): 4.1, 6.1

**IMDG**- Transport hazard class(es) (IMDG) : 4.1 (6.1)

Danger labels (IMDG): 4.1, 6.1

**IATA**- Transport hazard class(es) (IATA) : 4.1 (6.1)

Hazard labels (IATA): 4.1, 6.1

**ADN**- Transport hazard class(es) (ADN): 4.1 (6.1)

Danger labels (ADN): 4.1, 6.1

**RID-** Transport hazard class(es) (RID): 4.1 (6.1)

Danger labels (RID): 4.1, 6.1

# 14.4. Packing group

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

## 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): DT

Limited quantities (ADR): 0 Excepted quantities (ADR): E0 Packing instructions (ADR): P406 Special packing provisions (ADR): PP26

Mixed packing provisions (ADR): MP2

Transport category (ADR): 1

Special provisions for carriage - Loading, unloading and handling (ADR): CV28

Special provisions for carriage – Operation (ADR): S14

Tunnel restriction code (ADR): B

EAC code: 1W

**Transport by sea-** Special provisions (IMDG): 28

Limited quantities (IMDG): 0 Excepted quantities (IMDG): E0 Packing instructions (IMDG): P406

Special packing provisions (IMDG): PP26, PP31

EmS-No. (Fire): F-B

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EmS-No. (Spillage) : S-J Stowage category (IMDG) : E Segregation (IMDG) : SG7, SG30

Properties and observations (IMDG): Desensitized explosive. Substance when pure consists of yellow crystals. Slightly soluble in water. May form extremely sensitive compounds with heavy metals or their salts. Toxic if swallowed, by skin contact or by inhalation.

MFAG-No: 113

**Air transport-** PCA Excepted quantities (IATA) : E0

PCA Limited quantities (IATA): Forbidden

PCA limited quantity max net quantity (IATA): Forbidden

PCA packing instructions (IATA): 451
PCA max net quantity (IATA): 1kg
CAO packing instructions (IATA): 451
CAO max net quantity (IATA): 15kg
Special provisions (IATA): A40

ERG code (IATA): 3EP

**Inland waterway transport-** Classification code (ADN): DT

Special provisions (ADN): 802 Limited quantities (ADN): 0 Excepted quantities (ADN): E0 Equipment required (ADN): PP, EP Number of blue cones/lights (ADN): 2

Rail transport- Classification code (RID): DT

Limited quantities (RID): 0 Excepted quantities (RID): E0 Packing instructions (RID): P406

Special packing provisions (RID): PP26 Mixed packing provisions (RID): MP2

Transport category (RID): 1

Special provisions for carriage – Packages (RID): W1

Special provisions for carriage - Loading, unloading and handling (RID): CW28

Hazard identification number (RID): 46

**14.7.** Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

## 15. Regulatory information

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

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## 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

2,4-DINITROPHENOL INDICATOR AR is not on the REACH Candidate List

2,4-DINITROPHENOL INDICATOR AR is not on the REACH Annex XIV List

# **15.1.2.** National regulations

# Germany

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

## **Netherlands**

SZW-lijst van kankerverwekkende stoffen: The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen -

Vruchtbaarheid: The substance is not listed

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

## 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

## 15.2. Chemical safety assessment

No additional information available

#### 16. Other information

**Abbreviations and acronyms**: PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used**: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information**: None.

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## **End of document**

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