



MATERIAL SAFETY DATA SHEET (SDS/MSDS)

BRADY'S REAGENT

Product Code: 00468

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

BRADY'S REAGENT

CAS-No.: NA

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

1.1. Product identifier

Product form : Mixture
Trade name : Brady's Reagent

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company : Chemnovo Synthesis Pvt Ltd.
N-226 Near Kumbhavali Naka
Tarapur MIDC, Boisar-401 506
Palghar, Maharashtra
Telephone : +91 7400096089
Email: export@chemnovo.in

1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| | |
|--|------|
| Flammable liquids, Category 2 | H225 |
| Acute toxicity (oral), Category 3 | H301 |
| Acute toxicity (dermal), Category 3 | H311 |
| Acute toxicity (inhalation:gas) Category 3 | H331 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Specific target organ toxicity – single exposure, Category 1 | H370 |

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

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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 symbols

:



GHS02

GHS06

GHS08

Signal word (CLP)

:

Danger

Hazard statements (CLP)

:

H225 – Highly flammable liquid and vapour.

H301+H311+H331 – Toxic if swallowed, in contact with skin or if inhaled

H315 – Causes skin irritation

H319 – Causes serious eye irritation

H370 – Causes damage to organs

Precautionary statements (CLP)

:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P260 – Do not breathe dust/fume/gas/mist/vapours/spray

P280 – Wear protective gloves/protective clothing/eye protection/face protection

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

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

Remove contact lenses, if present and easy to do. Continue rinsing

P311 – Call a POISON CENTER/doctor/...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------|---|---------|--|
| Methanol Extra Pure | (CAS-No.) 67-56-1 (EC-No.) 200-659-6 | 70 - 75 | Flam. Liq. 2, H225 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Oral), H301 STOT SE 1, H370 |
| 2,4-dinitrophenyl Hydrazine 98% | (CAS No) 119-26-6 | 5 - 10 | Acute Tox. 4 (Oral), H302 |
| Sulphuric Acid 98% Extra Pure | (CAS No) 7664-93-9 (EC no) 231-639-5 | 5 - 8 | Skin Corr. 1A, H314 |

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | | |
|---------------------------------------|---|--|
| First-aid measures after inhalation | : | Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| First-aid measures after skin contact | : | Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing. Get immediate medical advice/attention. |
| 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. Do not induce vomiting. Get medical advice/attention. |

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

| | | |
|--------------------------------------|---|---|
| Symptoms/injuries | : | Causes damage to organs. |
| Symptoms/injuries after inhalation | : | Toxic if inhaled. |
| Symptoms/injuries after skin contact | : | Toxic in contact with skin. Causes skin irritation. |
| Symptoms/injuries after eye contact | : | Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : | Toxic if swallowed. |

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 | : | Carbon dioxide. Dry powder. Foam. Water spray. |
| Unsuitable extinguishing media | : | Do not use extinguishing media containing water. |

5.2. Special hazards arising from the substance or mixture

| | | |
|-------------|---|-------------------------------------|
| Fire hazard | : | Highly flammable liquid and vapour. |
|-------------|---|-------------------------------------|

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighter

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**

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

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

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools. Do not breathe vapours.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Heat sources.

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 face shield |
| 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 | : | Liquid |
| Colour | : | Orange to red. |
| Odour | : | No data available |
| Odour threshold | : | No data available |
| pH | : | No data available |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | -98 °C |
| Freezing point | : | No data available |
| Boiling point | : | 64.7 °C |
| Flash point | : | 11 °C |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Highly flammable liquid and vapour. Highly flammable liquid and vapour |
| Vapour pressure | : | 96.5 at 20°C |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | No data available |
| Density | : | 0.8 g/cm ³ |
| Solubility | : | No data available |
| 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 | : | 0.055 - 0.365 vol % |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Open flame.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 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.

| | |
|------------------|----------------------|
| ATE CLP (oral) | 100 mg/kg bodyweight |
| ATE CLP (dermal) | 300 mg/kg bodyweight |
| ATE CLP (gases) | 700 ppmv/4h |

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Causes damage to organs.
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 / AND

14.1. UN number

| | | |
|---------------|---|------|
| UN-No. (ADR) | : | 1230 |
| UN-No. (IMDG) | : | 1230 |
| UN-No. (IATA) | : | 1230 |
| UN-No. (ADN) | : | 1230 |
| UN-No. (RID) | : | 1230 |

14.2. UN proper shipping name

| | | |
|---------------------------------------|---|---|
| Proper Shipping Name (ADR) | : | METHANOL |
| Proper Shipping Name (IMDG) | : | METHANOL |
| Proper Shipping Name (IATA) | : | METHANOL |
| Proper Shipping Name (ADN) | : | METHANOL |
| Proper Shipping Name (RID) | : | METHANOL |
| Transport document description (ADR) | : | UN 1230 METHANOL, 3 (6.1), II, (D/E) |
| Transport document description (IMDG) | : | UN 1230 METHANOL, 3 (6.1), II (12°C c.c.) |
| Transport document description (IATA) | : | UN 1230 Methanol, 3 (6.1), II |
| Transport document description (ADN) | : | UN 1230 METHANOL, 3 (6.1), II |
| Transport document description (RID) | : | UN 1230 METHANOL, 3 (6.1), II |

14.3. Transport hazard class(es)

ADR

| | | |
|----------------------------------|---|---------|
| Transport hazard class(es) (ADR) | : | 3 (6.1) |
| Danger labels (ADR) | : | 3, 6.1 |
| | : | |



IMDG

| | | |
|-----------------------------------|---|---------|
| Transport hazard class(es) (IMDG) | : | 3 (6.1) |
| Danger labels (IMDG) | : | 3, 6.1 |

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IATA

Transport hazard class(es) (IATA) : 3 (6.1)

Hazard labels (IATA) : 3, 6.1



AND

Transport hazard class(es) (ADN) : 3 (6.1)

Danger labels (ADN) : 3, 6.1



RID

Transport hazard class(es) (RID) : 3 (6.1)

Danger labels (RID) : 3, 6.1



14.4. Packing group

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| | | |
|----------------------|---|----|
| 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 | : | No |
| Marine pollutant | : | No |
| Other information | : | No supplementary information available |

14.6. Special precautions for user

– Overland transport

| | | |
|---|---|-------------|
| Classification code (ADR) | : | F11 |
| Special provision (ADR) | : | 279 |
| Limited quantities (ADR) | : | 1L |
| Excepted quantities (ADR) | : | E2 |
| Packing instructions (ADR) | : | P001, IBC02 |
| Mixed packing provisions (ADR) | : | Mp19 |
| Portable tank and bulk container instructions (ADR) | : | T7 |
| Portable tank and bulk container special provisions (ADR) | : | Tp2 |
| Tank code (ADR) | : | L4BH |
| Tank special provisions (ADR) | : | Tu15 |
| Vehicle for tank carriage | : | FL |
| Transport category (ADR) | : | 2 |
| Special provisions for carriage – Loading, unloading and handling (ADR) | : | CV13, Cv28 |
| Special provisions for carriage – Operation (ADR) | : | S2, S19 |
| Hazard identification number (Kemler No.) | : | 336 |
| Orange plates | : | |

336**1230**

| | | |
|-------------------------------|---|-------|
| Tunnel restriction code (ADR) | : | D/E |
| EAC code | : | •2WE |
| APP code | : | A(fl) |
| – Transport by sea | | |
| Special provisions (IMDG) | : | 279 |
| Limited quantities (IMDG) | : | 1 L |
| Excepted quantities (IMDG) | : | E2 |

MATERIAL SAFETY DATA SHEET (SDS/MSDS)**BRADY'S REAGENT****CAS-No.: NA**

| | | |
|---|---|--------------------|
| Packing instructions (IMDG) | : | P001 |
| IBC packing instructions (IMDG) | : | IBC02 |
| Tank instructions (IMDG) | : | T7 |
| Tank special provisions (IMDG) | : | Tp2 |
| EmS-No. (Fire) | : | F-E |
| EmS-No. (Spillage) | : | S-D |
| Stowage category (IMDG) | : | B |
| Stowage and handling (IMDG) | : | Sw2 |
| Flash point (IMDG) | : | 12°C c.c. |
| MFAG-No | : | 131 |
| - Air transport | | |
| PCA Excepted quantities (IATA) | : | E2 |
| PCA Limited quantities (IATA) | : | Y341 |
| PCA limited quantity max net quantity (IATA) | : | 1L |
| PCA packing instructions (IATA) | : | 352 |
| PCA max net quantity (IATA) | : | 1L |
| CAO packing instructions (IATA) | : | 364 |
| CAO max net quantity (IATA) | : | 60L |
| Special provisions (IATA) | : | A113 |
| ERG code (IATA) | : | 3L |
| - Inland waterway transport | | |
| Classification code (ADN) | : | F11 |
| Special provisions (ADN) | : | 279, 802 |
| Limited quantities (ADN) | : | 1 L |
| Excepted quantities (ADN) | : | E2 |
| Carriage permitted (AND) | : | T |
| Equipment required (ADN) | : | PP, EP, EX, TOX, A |
| Ventilation (ADN) | : | VE01, Ve02 |
| Number of blue cones/lights (ADN) | : | 2 |
| - Rail transport | | |
| Classification code (RID) | : | F11 |
| Special provisions (RID) | : | 279 |
| Limited quantities (RID) | : | 1L |
| Excepted quantities (RID) | : | E2 |
| Packing instructions (RID) | : | P001, IBC02 |
| Mixed packing provisions (RID) | : | Mp19 |
| Portable tank and bulk container instructions (RID) | : | T7 |

| | | |
|---|---|------------|
| Portable tank and bulk container special provisions (RID) | : | Tp2 |
| Tank codes for RID tanks (RID) | : | L4BH |
| Special provisions for RID tanks (RID) | : | Tu15 |
| Transport category (RID) | : | 2 |
| Special provisions for carriage – Loading, unloading and handling (RID) | : | CW13, Cw28 |
| Colis express (express parcels) (RID) | : | Ce7 |
| Hazard identification number (RID) | : | 336 |

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

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**

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations**Germany**

| | | |
|----------------------------|---|---|
| AwSV/VwVwS Annex reference | : | Water hazard class (WGK) 3, strongly hazardous to water (Classification according to AwSV, Annex 1) |
|----------------------------|---|---|

| | | |
|--|---|--|
| 12th Ordinance Implementing the Federal Immission Control Act – 12.BImSchV | : | Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) |
|--|---|--|

Denmark

| | | |
|-----------------------------------|---|---|
| Class for fire hazard | : | Class I-1 |
| Store unit | : | 1 liter |
| Classification remarks | : | F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed |
| 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

SECTION 16: Other information

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Full text of H- and EUH-statements:

| | |
|-------------------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 1 | Specific target organ toxicity – single exposure, Category 1 |
| H225 | Highly flammable liquid and vapour |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H370 | Causes damage to organs |

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemnovo.in for additional terms and conditions of sale.

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