

# **MATERIAL SAFETY DATA SHEET (SDS/MSDS)**

## **BRADY'S REAGENT**

Product Code: 00468

**Chemnovo**  
DRIVEN BY CHEMISTRY, DEFINED BY PRECISION

**CHEMNOVO SYNTHESIS PVT LTD.**

**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](mailto: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,	H225
Category 2	
Acute toxicity (oral),	H301
Category 3	
Acute toxicity (dermal),	H311
Category 3	
Acute toxicity	H331
(inhalation:gas) Category 3	
Skin corrosion/irritation,	H315
Category 2	
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

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 <sup>3</sup>
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



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**

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	:	T7

## instructions (ADR)

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)

## Special provisions for carriage - Operation (ADR)

## Hazard identification number (Kemler No.)

Orange plates	:	336
		1230

## Tunnel restriction code (ADR)

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**

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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)	:	Ft1
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)	:	Ft1
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**

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

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](http://www.chemnovo.in) for additional terms and conditions of sale.

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