# CADMIUM (CD) ICP STANDARD SOLUTION 10 GM/L IN DILUTE HNO3 TRACEABLE TO NIST MSDS

CAS No: MSDS



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

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

1.1. Product identifier

Product form : Mixture

:

Product code : I114N

#### 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

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai - INDIA
T +91 22 6663 6663 - F +91 22 6663 6699
info@lobachemie.com - www.lobachemie.com

# 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, H315

Category 2

Serious eye damage/eye H319

irritation, Category 2

Carcinogenicity, Category H350

1B

Hazardous to the aquatic H412

environment — Chronic Hazard, Category 3

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

### Adverse physicochemical, human health and environmental effects

No additional information available

www.lobachemie.com 05/10/2016 1/11

Safety Data Sheet

#### 2.2. Label elements

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

Hazard pictograms (CLP)





GHS07

GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H315 - Causes skin irritation

H319 - Causes serious eye irritation

H350 - May cause cancer

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P201 - Obtain special instructions before use

P273 - Avoid release to the environment

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

Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention

#### 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<br>to Regulation (EC) No.<br>1272/2008 [CLP]  |
|--|---|---------|--|
| Water                                    | (CAS No) 7732-18-5<br>(EC no) 231-791-2                               | 75 - 99 | Not classified   |
| CADMIUM NITRATE AR (TETRAHYDRATE)<br>99% | (CAS No) 10022-68-1   | 1 - 5   | Acute Tox. 4 (Dermal),<br>H312<br>Acute Tox. 4 (Inhalation),<br>H332<br>Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400 |
| Nitric acid                              | (CAS No) 7697-37-2<br>(EC no) 231-714-2<br>(EC index no) 007-004-00-1 | 1 - 5   | Ox. Liq. 1, H271<br>Skin Corr. 1A, H314  |

Full text of H-phrases: see section 16

www.lobachemie.com 05/10/2016 2/11

Safety Data Sheet

#### **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 with plenty of soap and water. Get 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.

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

Symptoms/injuries : May cause cancer.
Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

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

No additional information available

# **SECTION 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.

#### **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.

# 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Collect spillage. 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

Precautions for safe handling : Do not breathe vapours. Do not handle until all safety precautions have been read

and understood. Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

www.lobachemie.com 05/10/2016 3/11

Safety Data Sheet

#### 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

# 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 : Liquid

Colour : Colourless.

Odour : No data available

Odour threshold : No data available

pH : No data available

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

Melting point : No data available

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 : No data available

Relative density : No data available

Solubility : No data available

www.lobachemie.com 05/10/2016 4/11

# Safety Data Sheet

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

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No additional information available

# 10.4. Conditions to avoid

Direct sunlight.

# 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 skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

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

exposure)

Specific target organ toxicity (repeated : Not classified

exposure)

www.lobachemie.com

05/10/2016

5/11

# Safety Data Sheet

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

Product/Packaging disposal : Dispose of contents/container to ...

recommendations

# **SECTION 14: Transport information**

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

#### 14.1. UN number

UN-No. (ADR) : 3264 UN-No. (IMDG) : 3264 UN-No.(IATA) : 3264 UN-No.(ADN) : 3264 UN-No. (RID) : 3264

# 14.2. UN proper shipping name

Proper Shipping Name (ADR)

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Proper Shipping Name (IMDG)

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Transport document description (ADR) : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, (E)

www.lobachemie.com 05/10/2016 6/11

# Safety Data Sheet

Transport document description (IMDG) : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, MARINE

POLLUTANT

Transport document description (IATA) : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III

Transport document description (ADN) : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III

Transport document description (RID) : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III

# 14.3. Transport hazard class(es)

#### **ADR**

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



#### **IMDG**

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



### **IATA**

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



# ADN

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



#### **RID**

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



www.lobachemie.com 05/10/2016 7/11

# Safety Data Sheet

14.4. Packing group

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

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : Yes (IMDG only)

Other information : No supplementary information available

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : C1
Special provision (ADR) : 274
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container : T7

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V12

(ADR)

Hazard identification number (Kemler No.) : 80

Orange plates :

80 3264

: TP1, TP28

Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B

# - Transport by sea

Special provision (IMDG) : 223, 274 Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7

Tank special provisions (IMDG) : TP1, TP28

EmS-No. (Fire): F-AEmS-No. (Spillage): S-BStowage category (IMDG): AStowage and handling (IMDG): SW2MFAG-No: 154

www.lobachemie.com 05/10/2016 8/11

Safety Data Sheet

# - Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity : 1L

(IATA)

PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provision (IATA) : A3
ERG code (IATA) : 8L

### - Inland waterway transport

Classification code (ADN) : C1

Special provisions (ADN) : 274

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

### - Rail transport

Classification code (RID) : C1
Special provision (RID) : 274
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container : T7

instructions (RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages : W12

(RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

# 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

: TP1, TP28

# 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

www.lobachemie.com 05/10/2016 9/11

Safety Data Sheet

# 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. 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

#### 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

#### Full text of H- and EUH-phrases:

| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4                               |
|---------------------------|---|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4                               |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1           | Hazardous to the aquatic environment — Acute Hazard, Category 1   |
| Aquatic Chronic 3         | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Carc. 1B                  | Carcinogenicity, Category 1B                                      |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                     |
| Ox. Liq. 1                | Oxidising Liquids, Category 1                                     |
| Skin Corr. 1A             | Skin corrosion/irritation, Category 1A                            |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                             |
| H271                      | May cause fire or explosion; strong oxidiser                      |
| H302                      | Harmful if swallowed  |
| H312                      | Harmful in contact with skin                                      |
| H314                      | Causes severe skin burns and eye damage                           |
| H315                      | Causes skin irritation  |
| H319                      | Causes serious eye irritation                                     |
| H332                      | Harmful if inhaled  |
| H350                      | May cause cancer  |
| H400                      | Very toxic to aquatic life  |
| H412                      | Harmful to aquatic life with long lasting effects                 |
|                           |   |

www.lobachemie.com 05/10/2016 10/11

Safety Data Sheet

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

www.lobachemie.com 05/10/2016 11/11