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MATERIAL SAFETY DATA SHEET

CAS Number: 10035-04-8

Version:02

PRODUCT NAME: CALCIUM CHLORIDE DIHYDRATE

1. IDENTIFICATION:

Product Code : 90736, 91223, 90355, 90136, 91008, 91133

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Health hazards

Hazard symbol

Signal word

Eye irritation : Category 2

Labels elements :

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Hazard statement : Causes serious eye irritation.

Precautionary statement

Prevention: Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

iower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.



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result in GHS classification

Other hazards which do not : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Calcium Chloride Dihydrate	10035-04-8	97.0 – 103%	Yes

FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs.

2.)

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

The most important known symptoms and effects are described in the labelling (see section

Inhalation provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

Indication of immediate medical attention and

special treatment needed

: No data available.

FIRE FIGHTING MEASURES:

General information : No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Unsuitable extinguishing

media

For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical

Hydrogen chloride gas Calcium oxide Not combustible. Ambient fire may liberate hazardous

vapors.

Special protective equipment and precautions for firefighters

Special firefighting

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting

procedures

the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Special protective equipment for fire-fighters Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

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: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions

Do not contaminate water sources or sewer.. Avoid discharge into drains, water courses or

onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling,

dispensing, and disposal.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Ingredients with workplace control parameters :-

Derived No Effect Level
(DNEL)

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, long	inhalation	Local effects	5 mg/m3
term			
Worker DNEL, acute	inhalation	Local effects	10 mg/m3
Consumer DNEL,	inhalation	Local effects	2,5 mg/m3
long term			
Consumer DNEL,	inhalation	Local effects	5 mg/m3
acute			

Appropriate engineering

controls : No data available

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation

rates should be matched to conditions. If applicable, use process enclosures, local exhaust



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ventilation, or other engineering controls to maintain airborne levels below recommended

exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work

area. Use explosion-proof ventilation equipment.

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator.

Always observe good personal hygiene measures, such as washing after handling the

material and before eating, drinking, and/or smoking. Routinely wash work clothing and Hygiene measures protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance Hygroscopic granules, flakes or powder.

Odor Odorless

Solubility 745 g/l at 20 °C Miscible in water.

Formula : CaCl₂.₂H₂O

Molecular Weight : 147.02 g/mol

Specific Gravity : 1.85 g/cm3 at 20°C

: 4.5 - 8.5 (5% aqueous solution)

% Volatiles by volume @

21C (70F)

No data available.

Boiling Point No data available.

: 176°C **Melting Point**

Flash Point : No data available. Vapor Density (Air=1) No data available. Vapor Pressure (mm Hg) 0,01 hPa at 20 °C Evaporation Rate (BuAc=1) No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No data available.

Chemical stability : Material is stable under ambient conditions..

Possibility of hazardous

Exothermic reaction with: boron trifluoride vinyl methyl ether Water Generates dangerous

reactions gases or fumes in contact with: Metals.



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Conditions to avoid : Heat, sparks, flames. Sunlight.

Incompatible materials : No data available.

Hazardous decomposition

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: In the event of fire: see section 5

products

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation : No data available.

Skin contact : No data available.

Eye contact : Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 Rat - male - 2.120 mg/kg

Dermal Product : LD 50 - Rabbit - male and female - > 5.000 mg/kg

Inhalation Product . No data available.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

No data available.

Serious eye damage/eye

irritation Product

Irritating to eyes.

Respiratory or skin

sensitization Product

Not a skin sensitizer.

Carcinogenicity Product

ty Product : This substance has no evidence of carcinogenic properties

IARC Monographs on the

Evaluation of Carcinogenic

: No carcinogenic components identified.

Risks to Humans

US. National Toxicology

Program (NTP) Report on

: No carcinogenic components identified.

Carcinogens

US. OSHA Specifically

Regulated Substances (29 CFR 1910.1001-1050

: No carcinogenic components identified.

Germ cell mutagenicity

In vitro Product

: No data available.



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Reproductive toxicity

Product

: No components toxic to reproduction.

Specific target organ

toxicity - single exposure

Not known.

Product

Specific target organ

toxicity - repeated

None known.

exposure Product

Aspiration hazard Product

No data available.

Other effects None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

: LC 50 Pimephales promelas (fathead minnow) - 4.630 mg/l

Aquatic invertebrates

Product

EC50 - Daphnia magna (Water flea) - 2.400 mg/l

Chronic hazards to the aquatic environment

Fish Product

: No data available.

Aquatic invertebrates

Product

Product:

No data available.

Toxicity to Aquatic Plants

No data available.

Persistence and degradability

Biodegradation Product

The methods for determining the biological degradability are not applicable to inorganic

substances.

BOD/COD ratio Product

No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

: No data available.

Product

Mobility in soil

No data available.

Other adverse effects

Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.



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Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:

UN No. **UN proper shipping**

Hazard Class(es) **Packaging** group

Marine Pollutant

DOT **IMDG**

IATA

name Calcium Chloride Dihydrate Calcium Chloride Dihydrate

Calcium Chloride Dihydrate

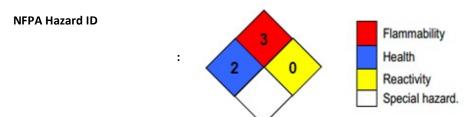
Not dangerous goods Not dangerous goods

Not dangerous goods

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 09/04/2025

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