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## \*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

Folinic acid, calcium salt pentahydrate, 95.0 - 105.0%

## \*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

MSDS Name: Folinic acid, calcium salt pentahydrate, 95.0 - 105.0%

Catalog Numbers:

23031-0000, 23031-0010, 23031-1000, 23031-2500

Synonyms:

5-Formyl-5,6,7,8-tetrahydrofolic acid calcium salt

Company Identification (Europe): Acros Organics BVBA  
 Janssen Pharmaceuticaaan 3a  
 2440 Geel, Belgium

Company Identification (USA): Acros Organics  
 One Reagent Lane  
 Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

## \*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
6035-45-6	Folinic acid, calcium salt pentahydrate	95-105%	unlisted		

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

## \*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

## EMERGENCY OVERVIEW

Light sensitive. Air sensitive.

## Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion:

Expected to be a low ingestion hazard.

Inhalation:

May cause respiratory tract irritation.

Chronic:

Not available.

## \*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately.

Notes to Physician:

## \*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

## General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

## Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

## \*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information: Use proper personal protective equipment as indicated in Section 8.

## Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container.

## \*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

## Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

## Storage:

Store in a tightly closed container. Store in a dry area. Keep under an argon blanket. Keep refrigerated. (Store below 4°C/39°F.)

## \*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

## Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

## Personal Protective Equipment

## Eyes:

Wear chemical goggles.

## Skin:

Wear appropriate protective gloves to prevent skin exposure.

## Clothing:

Wear appropriate protective clothing to prevent skin exposure.

## Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## \*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State:	Powder
Color:	yellow - white to yellow
Odor:	odorless
pH:	Not available.
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	240 - 250 deg C
Autoignition Temperature:	Not available.
Flash Point:	Not available.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	
Solubility in water:	Freely Soluble.
Specific Gravity/Density:	
Molecular Formula:	C20H21CaN7O7.5H2O
Molecular Weight:	601.58

## \*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

## Chemical Stability:

Stable under normal temperatures and pressures.

## Conditions to Avoid:

Incompatible materials, light, exposure to air.

## Incompatibilities with Other Materials:

Strong oxidizing agents.

## Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

## \*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

## RTECS#:

CAS# 6035-45-6 unlisted.

## LD50/LC50:

Not available.

Oral, rat: LD50 = 8 g/kg (anhydrous product)

## Carcinogenicity:

Folinic acid, calcium salt pentahydrate -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

## \*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

## \*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.

## \*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

## IATA

No information available.

## IMO

No information available.

## RID/ADR

No information available.

## \*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

## European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

## WGK (Water Danger/Protection)

CAS# 6035-45-6: No information available.

## United Kingdom Occupational Exposure Limits

## United Kingdom Maximum Exposure Limits

## Canada

None of the chemicals in this product are listed on the DSL/NDSL list.

CAS# 6035-45-6 is not listed on Canada's Ingredient Disclosure List.

## Exposure Limits

## US FEDERAL

## TSCA

CAS# 6035-45-6 is not listed on the TSCA inventory.

It is for research and development use only.

## \*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 8/20/1996 Revision #1 Date: 11/26/2002

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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