



# MATERIAL SAFETY DATA SHEET

## GALAXIUM PENTAHYDRATE

### 1. IDENTIFICATION.

Commercial Name	GALAXIUM Pentahydrate®
GALACTIC® References	CLFSL5H, CLPHL5H, CLFDL5H
Chemical name	2-hydroxypropionic acid calcium salt pentahydrate.
Formula	$(\text{CH}_3 \text{ CH OH COO})_2 \text{ Ca} \cdot 5 \text{ H}_2\text{O}$
Molecular weight	308.30
EEC Code	E-327
CAS Nr	814-80-2
Custom Code	29.18.11.00

Manufactured by **Galactic sa**  
Place d'Escanaffles, 23  
BE-7760 Escanaffles Belgium  
Tel: 32.69.45.49.21 Fax: 32.69.45.49.26

### 2. COMPOSITION.

GALAXIUM is a 98% calcium lactate as anhydrous.

### 3. HAZARDS IDENTIFICATION.

None

### 4. FIRST AID MEASURES.

Inhalation	Remove into fresh air. Get medical attention
Ingestion	Give large quantities of water if the person is conscious. Get medical attention
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention..
Skin contact	Immediately flush with plenty of water for at least 15 minutes.

nv **Galactic sa**

**Sales Office:** Ch de St Job, 12 BE-1180 Brussels BELGIUM w Tel: 32-2-332.14.00 w Fax: 32-2-332.16.11

**Plant:** Pl d'Escanaffles 23 BE-7760 Escanaffles BELGIUM w Tel: 32-69-45.49.21 w Fax: 32-69-45.49.26



# **MATERIAL SAFETY DATA SHEET**

## **GALAXIUM PENTAHYDRATE**

### **5. FIRE FIGHTING MEASURES.**

Extinguishing media	Water spray, foam, dry powder (Sand or Met-L-X), carbon dioxide.
Special measures	Use water to keep fire-exposed containers and equipment cool until fire is out.
Fire fighting instructions	Fire fighters and others who may be exposed to products of combustion should wear full protective clothing and self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
Fire and explosion hazards	Hazardous gases/vapours produced in fire are carbon monoxide, carbon dioxide.
Inflammability	The product is considered non-flammable.

### **6. ACCIDENTAL RELEASE MEASURES.**

Waste disposal	Treatment, storage, transportation, and disposal must be in accordance with applicable local regulations.
----------------	---

### **7. HANDLING AND STORAGE.**

Storage	Store in a dry, cool, well-ventilated area. Keep bags tightly closed Use only manufacturer original packaging.
Handling	Protect bags from physical damage and keep tightly closed. Avoid breathing dust and avoid contact with clothing, skin or eyes. Use only with adequate ventilation. Do not smoke, eat or drink while handling.

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION.**

Respiratory protection	None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.
Hand protection	Proper gloves
Eye protection	Safety glasses with sideshields.
Skin protection	Wear protective clothing to prevent skin contact. Wash thoroughly the clothing after handling.

nv Galactic sa

**Sales Office:** Ch de St Job, 12 BE-1180 Brussels BELGIUM w Tel: 32-2-332.14.00 w Fax: 32-2-332.16.11

**Plant:** Pl d'Escanaffles 23 BE-7760 Escanaffles BELGIUM w Tel: 32-69-45.49.21 w Fax: 32-69-45.49.26



# **MATERIAL SAFETY DATA SHEET**

## **GALAXIUM PENTAHYDRATE**

### **9. PHYSICAL AND CHEMICAL PROPERTIES.**

Appearance	white hygroscopic powder.
Odour	nearly odourless powder
pH	at 5% w/w : 6.0-8.0
Melting point	Degradation occurs at temperatures higher than 170°C.
Boiling point	Not available
Specific gravity (20°C)	Not available.
Solubility in water	9% at 25 °C.
Flash point	Not applicable.

### **10. STABILITY AND REACTIVITY.**

Shelf-life	GALAXIUM is stable if stored under conditions recommended at point 7 Re-test prior to use is recommended after two years.
Reactivity	GALAXIUM is stable under normal temperatures and pressures. It may burn but does not ignite readily. Avoid contact with strong oxidisers, excessive heat, sparks or open flame.
Dangerous reactions	None

### **11. TOXICOLOGICAL INFORMATION.**

LD 50 (rat, oral)	No data available.
LD 50 (rabbit, dermal)	No data available.
Human health effects	No data available.

nv Galactic sa

**Sales Office:** Ch de St Job, 12 BE-1180 Brussels BELGIUM w Tel: 32-2-332.14.00 w Fax: 32-2-332.16.11

**Plant:** Pl d'Escanaffles 23 BE-7760 Escanaffles BELGIUM w Tel: 32-69-45.49.21 w Fax: 32-69-45.49.26



# **MATERIAL SAFETY DATA SHEET**

## **GALAXIUM PENTAHYDRATE**

### **12. ECOLOGICAL INFORMATION.**

Mobility	No data available.
Biodegradability	No data available.
Biological Oxygen Demand (BOD)	No data available.
Chemical Oxygen Demand (COD)	No data available.
Bioaccumulation	No data available
Ecotoxicity	No data available
Additional information	L(+) lactic acid, which is the raw material for the synthesis of GALAXIUM, is a constituent in animal and human blood and muscle tissues. L(+) lactic acid is found in molasses (due to partial conversion of sugars), in apples and other fruits, tomato juice, beer, wines, and several higher plants, especially during germination.

### **13. DISPOSAL INFORMATION.**

Flush neutralised waste down drain with large amounts of water, depending upon local regulations.

Do not use the original packing for another product. Consult your distributor for possible re-use.

### **14. TRANSPORT INFORMATION.**

GALAXIUM is not listed in the list of the Dangerous Goods (ADR/RID) and is not registered under an IMDG-code (marine transportation).

### **15. REGULATORY INFORMATION.**

The product is not listed under "Dangerous products" by EEC regulation (Directive 93/72/EEC) Calcium lactate edible grade is permitted by the EEC as a Food Additive under reference E-327 and meets Food Chemical Codex specifications.

In the USA, calcium lactate is FDA approved and has the GRAS status.

### **16. ADDITIONAL INFORMATION.**

Any additional information is available at **GALACTIC's** Commercial Department.

nv Galactic sa

**Sales Office:** Ch de St Job, 12 BE-1180 Brussels BELGIUM w Tel: 32-2-332.14.00 w Fax: 32-2-332.16.11

**Plant:** Pl d'Escanaffles 23 BE-7760 Escanaffles BELGIUM w Tel: 32-69-45.49.21 w Fax: 32-69-45.49.26