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SAFETY DATA SHEET

(according to (EC) 1907/2006)

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

1.1. Product identifier FLEXRICIN* P-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Not provided.

1.3. Details of the supplier of the safety data sheet

Vertellus LLC 201 North Illinois Street, Suite 1800 Indianapolis, Indiana 46204 USA

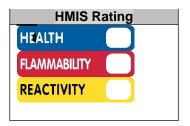
1-336-292-1781

e-mail Address: sds@vertellus.com 1.4. Emergency telephone number

Vertellus: 1-336-292-1781

CHEMTREC (USA): +1-800-424-9300 (collect calls accepted); (Int'I): +1-703-527-3887 (collect calls accepted)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

(According to Regulation (EC) No 1272/2008)

Not classified as hazardous under this directive.

(According to Directive 67/548/EEC)

Symbol: Not classified as hazardous under this directive. Risk Phrases: Not classified as hazardous under this directive. Safety Phrases: Not classified as hazardous under this directive.

2.2. Label elements

Signal Word:

Not required.

Hazard Precautions:

Not classified as hazardous under this directive.

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Prevention Precautionary Statements:

Note: These precautionary statements are not prescribed by directive 1272/2008 as this product is not classified as hazardous under this directive. Wash hands thoroughly after handling with soap and water. Wear protective gloves, protective clothing, eye protection and face protection. If swallowed, in eyes, on skin or inhaled call a poison center or doctor/physician if you feel unwell. If inhaled, remove victim to fresh air and keep at rest in a comfortable position for breathing. Take off contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed.

First Aid Precautionary Statements:

Not required.

Storage Precautionary Statements:

Not required.

Disposal Precautionary Statements:

Not required.

2.3. Other hazards

Signs and Symptoms of Potential Overexposure: See Section 11 for further toxicological information.

Primary Route(s) of Exposure: Skin contact and absorption, eye contact, ingestion, inhalation.

Medical Conditions Aggravated by Exposure:

SECTION 3: Composition/information on ingredients

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3.1. Substances or 3.2. Mixtures						
Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	CLP Inventory/ Annex VI	EU DSD Classification (67/548/EEC)	EU CLP Classification (1272/2008)
Ricinoleic acid, butyl ester	151-13-3	~ 100	205-785-5	Not listed.	N/A Not applicable	Not applicable.

NOTE: See Section 8 of this MSDS for exposure limit data for these ingredients. See Section 15 of this MSDS for trade secret information (where applicable).

See Section 16 of this MSDS for the full text of the R-phrases above.

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin Contact: Wash thoroughly after skin contact.

Eye Contact: Immediately flush the eyes with plenty of water for at least 15 minutes. Call a physician. **Inhalation:** Remove from exposure. If not breathing, give artificial respiration and call a physician.

Ingestion: If swallowed, do not induce vomiting. Get prompt medical attention.

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4.2 Most important symptoms and effects, both acute and delayed

Acute: See Section 11 for further toxicological information.

Delayed Effects: None known.

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

Thermal Exposure: Not applicable.

Note to Physician: No specific indications. Treatment should be based on the judgment of the physician in response to the

reactions of the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media: Not established

5.2. Special hazards arising from the substance or mixture

Hazardous Products of Combustion: None Known
Potential for Dust Explosion: not available
Special Flammability Hazards: Not applicable.

5.3. Advice for firefighters

Basic Fire Fighting Guidance: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

Flammability Classification (OSHA): Not applicable.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuation Procedures: Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Special Instructions: Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel

using the first aid procedures in Section 4. Leather shoes that have been saturated must be

discarded.

6.2. Environmental precautions

Prevent releases to soils, drains, sewers, and waterways.

6.3. Methods and material for containment and cleaning up

Containment Techniques and Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Remove all



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Clean-up Procedures: ignition sources. Ventilate the area of spill or leak. Wear protective equipment during clean-up. For

small spills, use suitable absorbent material and collect for later disposal. For large spills, the area may require diking to contain the spill. Material can then be collected (eg., suction) for later disposal. After collection of material, flush area with water. Dispose of the material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal,

state or local laws.

Special Reporting Requirements: Not applicable.

6.4. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for Unique Hazards: Not applicable.

Practices to Minimize Risk: Wear appropriate protective equipment when performing maintenance on contaminated equipment.

Wash hands thoroughly before eating or smoking after handling this material.

Special Handling Equipment: Not applicable.

7.2. Conditions for safe storage, including any incompatibilities

Storage Precautions &This product should be stored at ambient temperature in a dry, well-ventilated location. Keep

Recommendations: container closed when not in use.

Dangerous Incompatibility Reactions: No data available.

Incompatibilities with Materials of

Construction:

None known

7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits (United States): OSHA PEL: Not established ACGIH TLV: Not established

8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

Personal Protective Equipment: Impervious gloves, boots, and clothing, chemical goggles or face shield where necessary, and a

NIOSH approved chemical cartridge respirator or supplied air breathing apparatus with organic

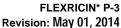
vapour/acid gas cartridges with particle filters.

Respirator Caution: Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not

be used in oxygen-deficient atmospheres.

Ventilation: All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be

provided.



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Other Engineering Controls: All appropriate engineering controls should be used to minimize exposure potential. Use exhaust

ventilation to keep airborne concentrations below exposure limits.

Thermal Hazards: Not applicable.

Additive or Synergistic Effects: None known.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Molecular Formula:No data available.Molecular Weight:354.56 g/molVapor Pressure:No data available.Evaporation Rate:Not determinedSpecific Gravity or Density:0.919Vapor Density (air = 1):No data available.

Boiling Point: No data available. Freezing / Melting Point:

Solubility in Water:InsolubleOctanol / Water Coefficient:No data available.pH:No data available.Odor Threshold:No data available.Viscosity:No data available.Autoignition Temperature:No data available.

Flash Point and Method: 405°F (207°C) Flammable Limits: No data available. (LEL) – No

data available. (UEL)

9.2. Other information

Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity Not classified as dangerously reactive.

10.2. Chemical stability10.3. Possibility of hazardous reactionsNo data available.Not expected to occur.

10.4. Conditions to avoid No data.

10.5. Incompatible materials No data available.

10.6. Hazardous decomposition products Have not been determined.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Oral LD50:No data available.Acute Dermal LD50:No data available.Acute Inhalation LC50:No data available.Skin Irritation:No data available.

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Skin Sensitization: No data available. **Eye Irritation:** No data available. **Target Organs:** No data available. Carcinogenicity: No data available. Teratogenicity: No data available. Reproduction: No data available. **Neurotoxicity:** No data available. Mutagenicity: No data available.

SECTION 12: Ecological information

12.1. ToxicityNo data available.12.2. Persistence and degradabilityNo data available12.3. Bioaccumulative potentialNo data available12.4. Mobility in soilNo data available12.5. Results of PBT and vPvB assessmentNo data available.12.6. Other adverse effectsNo data available.

Component Name:

German Water Hazard Classification:No data available.
No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

US EPA Waste Number: Non-Hazardous

Waste Disposal: Dispose of this material in accordance with standard practice for disposal of potentially hazardous

materials as required by applicable international, national, regional, state or local laws. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal

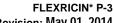
regulations may also apply to empty containers and equipment rinsates.

SECTION 14: Transport information

14.1. UN number Not applicable

14.2. UN proper shipping name Chemicals, n.o.s. (Ricinoleic acid, butyl ester)

14.3. Transport hazard class(es)Not applicable14.4. Packing groupNot applicable14.5. Environmental hazardsNot applicable



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14.6. Special precautions for user

No data available.

NA Emergency Guidebook Numbers:

Not applicable

IMDG EMS: Not applicable

14.7. Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

OSHA Hazards: Health: Irritant. Physical: Not applicable.

WHMIS Classification: Not Controlled

Chemical Inventory Lists: Status TSCA: Present **EINECS:** 205-785-5 Canada(DSL/NDSL): DSL Japan: (2)-2721

Korea: Present KE-20769

Australia: Present New Zealand: Present China: Present Philippines: Present Switzerland: Not listed.

New Zealand GHS Classification: Not classified by this country.

Japan GHS Classification: Not classified by this country.

Korea (MOL) GHS Classification: Not classified by this country.

Australia GHS Classification: Not classified by this country.

Taiwan GHS Classification: Not classified by this country.

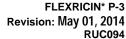
Indonesia GHS Classification: Not classified by this country.

Component Name: SARA 313: Not listed.

Not listed.

15.2. Chemical safety assessment

Not applicable.



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SECTION 16: Other information

Full text of R phrases in Section 3: Not applicable

Legend of abbreviations: ACGIH = American Conference on Governmental Industrial Hygienists.

CAS = Chemical Abstracts Service.

CERCLA = Comprehensive Environmental, Response, Compensation and Liability Act (1990).

CFR = Code of Federal Regulations.

DSL/NDSL = Domestic Substances List/Non-Domestic Substances List.

EC = European Community.

EEC = European Economic Community.

EINECS = European Inventory of Existing Commercial chemical Substances.

ELINCS = European List of Notified Chemical Substances.

EU = European Union.

GHS = Globally Harmonized System.

LC = Lethal concentration.

LD = Lethal dose.

MOL = Ministry of Labor.

NEMA = National Emergency Management Agency. NFPA = National Fire Protection Association.

NIOSH = National Institute of Occupational Safety and Health.

NTP = National Toxicological Program.

OSHA = Occupational Safely and Health Administration

PEL = Permissible exposure limit.

RQ = Reportable quantity.

SARA = Superfund Amendments and Reauthorization Act of 1986.

TLV = Threshold limit value.

WHMIS = Workplace Hazardous Materials Information System.

Important Note: Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.

Revision Date: May 01, 2014 **Original Date of Issue:** Not known or provided.

Revision Details: Regulatory Management Department Revision Details: Revised in all sections to GHS format.