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**** MATERIAL SAFETY DATA SHEET ****

ISONICOTINAMIDE, 99%

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

MSDS Name: ISONICOTINAMIDE, 99%
Catalog Numbers:
12258-0000, 12258-0250, 12258-1000
Synonyms:
Company Identification (Europe):  Acros Organics BVBA
Janssen Pharmaceuticalaalan 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  |
|----------------|--------------------------------------|----------|-----------|-----------|---------------+
|     1453-82-3  |ISONICOTINAMIDE, 99%                  |    99    | 215-926-2 |||
+----------------+--------------------------------------+----------+-----------+-----------+---------------+

Hazard Symbols: None Listed.
Risk Phrases: None Listed.

**** SECTION 3 - HAZARDS IDENTIFICATION ****

Not available.

EMERGENCY OVERVIEW

Potential Health Effects
The toxicological properties of this material have not been
investigated. Use appropriate procedures to prevent opportunities
for direct contact with the skin or eyes and to prevent inhalation.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:
Immediately flush eyes with plenty of water for at least 15 minutes,
ocasionally 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:
Do NOT induce vomiting. If conscious and alert, rinse mouth and
drink 2-4 cupfuls of milk or 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. During a fire, irritating and highly toxic gases
may be generated by thermal decomposition or combustion.

Extinguishing Media:
In case of fire, use water, dry chemical, chemical foam, or
alcohol-resistant foam.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

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

Spills/Leaks:
Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:
Store in a cool, dry place. Keep container closed when not in use.

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

Engineering Controls:
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Personal Protective Equipment

Eyes:
Wear safety glasses and chemical goggles if splashing is possible.

Skin:
Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to minimize contact with skin.

Respirators:
Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

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

Physical State: Crystalline powder
Color: white
Odor: Not available.
pH: Not available.
Vapor Pressure: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: 155.00 - 158.00 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:
Specific Gravity/Density: C6H6N2O
Molecular Weight: 122.13

**** SECTION 10 - STABILITY AND REACTIVITY ****
Chemical Stability:
  Stable under normal temperatures and pressures.

Conditions to Avoid:
  Incompatible materials, strong oxidants.

Incompatibilities with Other Materials:
  Strong oxidizing agents, strong bases.

Hazardous Decomposition Products:
  Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
  CAS# 1453-82-3: NR9500000

LD50/LC50:
  Not available.

Carcinogenicity:
  ISONICOTINAMIDE, 99% -
  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# 1453-82-3: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada
  CAS# 1453-82-3 is listed on Canada's NDSL List.
  CAS# 1453-82-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL
  TSCA
    CAS# 1453-82-3 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date:  7/16/1996  Revision #0 Date: Original.

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
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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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