SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

NIMROD

Revision Date 16-Apr-2020
Publish Date 16-Apr-2020
Version 5
Product No FNG56787-44

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

NIMROD
Pure substance/mixture Mixture

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

Recommended Use Fungicide
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address ADAMA Agricultural Solutions UK Ltd
Third Floor East
1410 Arlington Business Park
Theale
READING
RG7 4SA
Tel: 01635 860555
Fax: 01635 861555

For further information, please contact

Email address ukenquiries@adama.com

1.4. Emergency telephone number

Emergency Telephone National Chemical Emergency Centre (UK):
Tel: 01865 407333 (24 hours)
National Poisons Information Centre (Republic of Ireland)
Tel: 01 809 2166 (8am – 10pm 7 days a week)***

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard Category 1 - (H304)
Serious eye damage/eye irritation Category 2 - (H319)
Carcinogenicity Category 2 - (H351)
Specific target organ toxicity (single exposure) Category 3  - (H335)
Hazardous to the Aquatic Environment - Chronic Hazard Category 1  - (H410)
Flammable liquids Category 3  - (H226)

2.2. Label elements
Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Signal word Danger

Hazard Statements
H304 - May be fatal if swallowed and enters airways
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H410 - Very toxic to aquatic life with long lasting effects
H226 - Flammable liquid and vapor

Precautionary Statements
P102 - Keep out of reach of children
P201 - Obtain special instructions before use
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P331 - Do NOT induce vomiting
P501 - Dispose of contents/ container to an approved waste disposal plant

EU Specific Hazard Statements
EUH066 - Repeated exposure may cause skin dryness or cracking
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use
EUH208 - Contains Bupirimate. May produce an allergic reaction.

Additional phrases for PPP
SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight-%</th>
<th>CAS No</th>
<th>EC No</th>
<th>Index No</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>M-Factor</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bupirimate</td>
<td>25-30</td>
<td>41483-43-6</td>
<td>255-391-2</td>
<td>612-288-00-0</td>
<td>Carc. 2 (H351) Skin Sens. 1B (H317) Aquatic Chronic 1 (H410)</td>
<td>M=1</td>
<td>-</td>
</tr>
</tbody>
</table>
### Section 4: FIRST AID MEASURES

**4.1. Description of first aid measures**

**General advice**
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!

**Inhalation**
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

**Skin Contact**
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

**Eye contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

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

**Self-protection of the first aider**
Use personal protective equipment as required.

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**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms**
None known.

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

**Note to physicians**
Treat symptomatically.

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### Section 5: FIRE-FIGHTING MEASURES

**5.1. Extinguishing media**

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media
No information available.

5.2. Special hazards arising from the substance or mixture
No specific hazard known.

5.3. Advice for firefighters
Wear self contained breathing apparatus for fire fighting if necessary

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Remove all sources of ignition. Evacuate personnel to safe areas. Use only with adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up
Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections
Other Information
See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling
Use only with adequate ventilation. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities
Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM)
The information required is contained in this Material Safety Data Sheet.
8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butan-1-ol</td>
<td></td>
<td>STEL: 50 ppm</td>
<td>STEL: 50 ppm</td>
<td>S*</td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td>71-36-3</td>
<td></td>
<td>STEL: 154 mg/m³</td>
<td>STEL: 154 mg/m³</td>
<td>TWA: 310 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
<td>S*</td>
<td>Ceiling / Peak: 100 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ceiling / Peak: 310 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Italy</td>
<td>TWA: 20 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Butan-1-ol</td>
<td></td>
<td>TWA: 20 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>71-36-3</td>
<td></td>
<td>TWA: 150 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Portugal</td>
<td>TWA: 150 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Netherlands</td>
<td>TWA: 150 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Finland</td>
<td>TWA: 230 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Denmark</td>
<td>Ceiling: 50 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling: 150 mg/m³</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Austria</td>
<td>STEL 200 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Butan-1-ol</td>
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<td>STEL 600 mg/m³</td>
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<td></td>
</tr>
<tr>
<td>71-36-3</td>
<td></td>
<td>TWA 150 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Switzerland</td>
<td>STEL 50 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Poland</td>
<td>STEL 150 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 150 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Norway</td>
<td>NDSCh: 150 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
<td>Skin</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling: 25 ppm</td>
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</tr>
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<td></td>
<td></td>
<td>Ceiling: 75 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

**Engineering Controls**
Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection**
Tight sealing safety goggles.

**Hand Protection**
Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

**Body Protection**
Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35% cotton.

**Respiratory protection**
Use only with adequate ventilation.

**General Hygiene Considerations**
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

**Environmental exposure controls**
Do not allow into any sewer, on the ground or into any body of water.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>light yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Solvent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>8.7 - 9.2</td>
<td>CIPAC MT 75.2</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range °C</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point °C</td>
<td>40</td>
<td>CIPAC MT 12.2</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Flammability (solid, gas) : Not Applicable
Upper/lower flammability or explosive limits: No data available
Vapor pressure kPa : No data available
Vapor density : No data available
Relative density : 0.88 - 0.98 EEC A.3
Solubility(ies) mg/l : No data available
Partition Coefficient : See Section 12 for more information
(n-octanol/water) Log Pow : No data available
Autoignition temperature °C : No data available
Decomposition temperature °C : No data available
Kinematic viscosity mm2/s 40 °C : Not available
Explosive properties : Not an explosive
Oxidizing properties : No data available

9.2. Other information
Bulk density g/ml : Not Applicable
Surface tension mN/m : Not Applicable

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity
No data available.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
None under normal processing.

10.4. Conditions to avoid
Heat, flames and sparks.

10.5. Incompatible materials
No information available

10.6. Hazardous decomposition products
None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Species</th>
<th>Values</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50  mg/kg</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td>JF 4260</td>
</tr>
<tr>
<td>Dermal LD50 mg/kg</td>
<td>&gt; 2000</td>
<td>Rat</td>
<td>JF 4260</td>
</tr>
<tr>
<td>Inhalation LC50 mg/l/4h</td>
<td>&gt; 5.3</td>
<td>Rat</td>
<td>OECD 403</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Non-irritating to the skin</td>
<td>Rabbit</td>
<td>OECD 404</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Irritating to eyes</td>
<td>Rabbit</td>
<td>OECD 405</td>
</tr>
<tr>
<td>Respiratory/skin sensitization</td>
<td>Not a skin sensitizer</td>
<td>Guinea pig</td>
<td>OECD 406</td>
</tr>
</tbody>
</table>

Chronic toxicity
Germ cell mutagenicity
Chemical Name: Bupirimate
: Not classified

Carcinogenicity
Chemical Name: Bupirimate
: Suspected of causing cancer

Reproductive toxicity
Chemical Name: Bupirimate
: Not toxic for the reproductive system

STOT - single exposure
Chemical Name: Bupirimate
: No data available

STOT - repeated exposure
Chemical Name: Bupirimate
: No data available

Aspiration hazard
Chemical Name: Bupirimate
: No data available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

Acute toxicity

<table>
<thead>
<tr>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 96-hour LC50 mg/l</td>
<td>6.2</td>
<td>Oncorhynchus mykiss OECD 202</td>
</tr>
<tr>
<td>Crustacea 48-hour EC50 mg/l</td>
<td>11.9</td>
<td>Daphnia magna OECD 202</td>
</tr>
<tr>
<td>Algae 72-hour EC50 mg/l</td>
<td>1.55</td>
<td>P. subcapitata OECD 201</td>
</tr>
<tr>
<td>Other plants EC50 mg/l</td>
<td></td>
<td>Not available</td>
</tr>
</tbody>
</table>

Chronic aquatic toxicity

<table>
<thead>
<tr>
<th>Species</th>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish NOEC mg/l</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Crustacea NOEC mg/l</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Algae NOEC mg/l</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Other plants NOEC mg/l</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

Terrestrial Toxicity

Birds Oral LD50 mg/kg
Chemical Name: Bupirimate
: >5000 Japanese quail

Bees Oral LD50 μg/bee
Chemical Name: Bupirimate
: > 200 Oral

12.2. Persistence and degradability

Abiotic Degradation

<table>
<thead>
<tr>
<th>Method</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water DT50 days</td>
<td>SETAC</td>
</tr>
<tr>
<td>Soil DT50 days</td>
<td>SETAC</td>
</tr>
<tr>
<td>Chemical Name: Bupirimate</td>
<td>165</td>
</tr>
<tr>
<td>Chemical Name: Bupirimate</td>
<td>22-69</td>
</tr>
</tbody>
</table>
Biodegradation
Chemical Name: Bupirimate
Not readily biodegradable
OECD 301 D

12.3. Bioaccumulative potential

Partition Coefficient (n-octanol/water) Log Pow
Chemical Name: Bupirimate
3.68
EEC A.8
pH 7

Bioconcentration factor (BCF)
Chemical Name: Bupirimate
Not available

12.4. Mobility in soil

Bioconcentration factor (BCF)
Chemical Name: Bupirimate
882 - 2822
OECD 106***
KOC

12.5. Results of PBT and vPvB assessment
The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects
No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste from residues/unused products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Improper disposal or reuse of this container may be dangerous and illegal.

Other Information
Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

14.1 UN/ID No *
1993
14.2 Proper shipping name
FLAMMABLE LIQUID, N.O.S. ( 31-34% n-BUTANOL )
14.3 Hazard Class
3
14.4 Packing Group
III
14.5 Marine pollutant
Yes
14.6 Special precautions for user

RID/ADR

14.1 UN/ID No *
1993
14.2 Proper shipping name
FLAMMABLE LIQUID, N.O.S. ( 31-34% n-BUTANOL )
14.3 Hazard Class
3
14.4 Packing Group
III
14.5 Environmental hazard
Yes
14.6 Special precautions for user
14.7 Tunnel restriction code
D/E
**Section 15: REGULATORY INFORMATION**

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

<table>
<thead>
<tr>
<th>Trade name</th>
<th>Registration number</th>
<th>Registration date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

**Section 16: OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3

- H226 - Flammable liquid and vapor
- H302 - Harmful if swallowed
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H336 - May cause drowsiness or dizziness
- H351 - Suspected of causing cancer
- H410 - Very toxic to aquatic life with long lasting effects
- H411 - Toxic to aquatic life with long lasting effects
- EUH066 - Repeated exposure may cause skin dryness or cracking

**List of Acronyms**

- ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- CAS Number - Chemical Abstracts Service number
- EC Number - EINECS and ELINCS Number
- EINECS - European Inventory of Existing Commercial Substances
- ELINCS - European List of Notified Chemical Substances
- IATA - International Air Transport Association
- ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Revision Note
Changes made to the last version are labeled with this sign ***.

Process of classification evaluation in accordance with CLP regulation.

Classification of the mixture

- H226 - Flammable liquid and vapor
- H304 - May be fatal if swallowed and enters airways
- H319 - Causes serious eye irritation
- H351 - Suspected of causing cancer
- H335 - May cause respiratory irritation
- H410 - Very toxic to aquatic life with long lasting effects***

Classification procedure

- Classification based on test data
- Classification based on Calculation method***

Disclaimer
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet