

SAFETY DATA SHEET

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

NIMROD

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
Carcinogenicity Category 2 - (H319)
Category 2 - (H351)

ADAMA Page 1/10

Specific target organ toxicity (single Category 3 - (H335)

exposure)

Hazardous to the Aquatic

Category 1 - (H410)

Environment - Chronic Hazard

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

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

	Chemical Name	Weight-%	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M-Factor	REACH Registration Number
Γ	Bupirimate	25-30	41483-43-6	255-391-2	612-288-00-0	Carc. 2 (H351)		-
						Skin Sens. 1B (H317)		
L						Aquatic Chronic 1 (H410)	M=1	

n-Butan-1-ol	31-34	71-36-3	200-751-6	603-004-00-6	STOT SE 3 (H335) STOT SE 3 (H336) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H302) Flam Liq. 3 (H226)	01-2119484630 -38-0001
Hydrocarbons, C10, aromatics, <1% naphthalene	14-17	N/A	918-811-1	-	STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)	01-2119463583 -34-0005
Hydrocarbons C11-C14, n-alkanes, isoalkanes, cyclics <2% aromatic	8.5-13	N/A	926-141-6	-	Asp. Tox. 1 (H304) (EUH066)	01-2119456620 -43
Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	2 - 3	90194-26-6	932-231-6	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	01-2119560592 -37

Full text of H- and EUH-phrases: see section 16

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 aiderUse personal protective equipment as required.

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

Symptoms None known.

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

Note to physicians Treat symptomatically.

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.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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

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 ProtectionUse 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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<u>Property</u> <u>Values</u> <u>Method</u> <u>Remarks</u>

Appearance
Physical state : Liquid
Color : light yellow
Odor : Solvent

Odor threshold : No data available

pH : 8.7 - 9.2 CIPAC MT 75.2

Melting point/freezing point °C : No data available Boiling point/boiling range °C : No data available

Flash point °C : 40 CIPAC MT 12.2

Evaporation rate : Not Applicable

Flammability (solid, gas) : Not Applicable Upper/lower flammability or No data available

explosive limits

Vapor pressure kPa No data available Vapor density No data available

EEC A.3 Relative density 0.88 - 0.98

Solubility(ies) mg/l No data available

Partition Coefficient See Section 12 for more (n-octanol/water) Log Pow

information

Not available

Autoignition temperature °C No data available

Decomposition temperature °C No data available

Kinematic viscosity mm2/s 40 °C:

Explosive properties Not an explosive **Oxidizing properties** No data available

9.2. Other information

Bulk density g/ml

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

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

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 <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish 96-hour LC50 mg/l : 6.2 Oncorhynchus mykiss
Crustacea 48-hour EC50 mg/l : 11.9 Daphnia magna OE0

Crustacea 48-hour EC50 mg/l: 11.9Daphnia magnaOECD 202Algae 72-hour EC50 mg/l: 1.55P. subcapitataOECD 201

Other plants EC50 mg/l : Not available

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

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 Values Method Remarks

Water DT50 days

Chemical Name

Bupirimate : 165 SETAC

Soil DT50 days

Chemical Name

Bupirimate : 22-69

Biodegradation Chemical Name

Bupirimate : Not readily biodegradable OECD 301 D

12.3. Bioaccumulative potential

Partition Coefficient Values Method Remarks

(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

Adsorption/Desorption Values Method Remarks

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 Ш 14.4 Packing Group 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 14.4 Packing Group Ш 14.5 Environmental hazard Yes 14.6 Special precautions for user

14.7 Tunnel restriction code D/E

Page 8/10 ADAMA

ICAO/IATA

14.1 UN/ID No * 1993

14.2 Proper shipping name FLAMMABLE LIQUID, N.O.S. (31-34% n-BUTANOL)

14.3 Hazard Class314.4 Packing GroupIII14.5 Environmental hazardYes

14.6 Special precautions for user

14.7 Transport in bulk according to Not Applicable

Annex II of MARPOL 73/78 and the

IBC Code



* 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.

Section 15: REGULATORY INFORMATION

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

Trade name Registration number Registration date

Not Applicable Not Applicable Not Applicable

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

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
 OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

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 test data Classification based on test data

Classification based on Calculation method Classification based on Calculation method 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

ADAMA Page 10/10