

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

	entification of the subs	tance/mixture and of th	ne company/undertaking	
1.1. Product	identifier		io oonipany/anaonaning	
Trade name		: PRIMERO®		
Product code		FH-040 - Nicosulfuron 40g/L	. OD -	
.2. Relevant	t identified uses of the substa	ince or mixture and uses adv	vised against	
	identified uses			
Main use category		: Professional use		
Jse of the substan		: Agriculture Herbicide		
	vised against			
No additional inform				
	of the supplier of the safety da	ata sheet		
Rotam Europe Ltd	alala da an Diana			
Hamilton House, M London WC1H 9BE				
United Kingdom				
Tel : +44 020 7953	0447			
msds@rotam.com	-			
1.4. Emerger	ncy telephone number			
Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS Direct (England and Wales)		111	
United Kingdom	NHS 24 (Scotland)		111	
Aquatic Acute 1, H		. 1272/2008 [CLP]		
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform	400 H410 es: see section 16 <b>hemical, human health and e</b> nation available			
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label ele	400 H410 es: see section 16 <b>hemical, human health and e</b> nation available <b>ements</b>	nvironmental effects		
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label ele Labelling accordin	400 H410 es: see section 16 <b>hemical, human health and e</b> nation available	nvironmental effects		
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Aquatic Acute 1, H- Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label ele Labelling accordin Hazard symbols	400 H410 es: see section 16 hemical, human health and en nation available ements ing to Regulation (EC) No. 127	nvironmental effects		
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label elect Labelling accordin Hazard symbols	400 H410 es: see section 16 hemical, human health and e nation available ements ng to Regulation (EC) No. 127	2/2008 [CLP]	life with long lasting effects.	
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label ele Labelling accordin Hazard symbols Signal word (CLP) Hazard statements	400 H410 es: see section 16 hemical, human health and e nation available ements ng to Regulation (EC) No. 127 (CLP)	rvironmental effects		
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label ele Labelling accordin Hazard symbols Signal word (CLP) Hazard statements	400 H410 es: see section 16 hemical, human health and e nation available ements ng to Regulation (EC) No. 127 (CLP)	2/2008 [CLP] 2/2008 [CLP] 2 3 4 4 5 4 4 10 - Very toxic to aquatic 3 5 4 4 10 - Very toxic to aquatic 4 5 9 273 - Avoid release to the 9 391 - Collect spillage.	environment.	
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label ele Labelling accordin Hazard symbols Signal word (CLP) Hazard statements	400 H410 es: see section 16 hemical, human health and e nation available ements ng to Regulation (EC) No. 127 (CLP)	<ul> <li>invironmental effects</li> <li>invironmental effects&lt;</li></ul>		
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label ele Labelling accordin Hazard symbols Signal word (CLP) Hazard statements Precautionary state	400 H410 es: see section 16 hemical, human health and e nation available ements ng to Regulation (EC) No. 127 (CLP)	<ul> <li>eventual effects</li> <li>eventual</li></ul>	environment. / container to a licensed hazardou	disposed of as non-hazardous
Aquatic Acute 1, H Aquatic Chronic 1, Full text of H-phras Adverse physicoc No additional inform 2.2. Label ele	400 H410 es: see section 16 themical, human health and en nation available ements ing to Regulation (EC) No. 127 (CLP) ements (CLP)	<ul> <li>Province and the second state of the</li></ul>	environment. / container to a licensed hazardou pty clean containers which can be human health and the environmer vater with the product or its contai er/Avoid contamination via drains rganisms respect an unsprayed bu	e disposed of as non-hazardous nt, comply with the instructions f ner (Do not clean application from farmyards and roads)

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SECTION 3: Composition/information on ingredients

3.1.	Substances				
Not appl					
3.2.	Mixtures				
Name			Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nicosulf	iuron		(CAS No.) 111991-09-4	4.25	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Full text	of R-, H- and EUH-phrases: see section	16.			
SECTI	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general	: Call a	poison center or a doctor if you feel unv	vell.	
First-aid	measures after inhalation		ove person to fresh air and keep comforta feel unwell.	able for breathin	g. Call a poison center or a doct
	measures after skin contact		immediately with plenty of water. In cas		
	measures after eye contact	do. C	cautiously with water for several minute ontinue rinsing. If eye irritation persists: (	Get medical adv	ice/attention.
First-aid	measures after ingestion	: Do N	OT induce vomiting. Obtain emergency r	nedical attention	1.
4.2. No addit	Most important symptoms and effectional information available	ts, both	acute and delayed		
4.3.	Indication of any immediate medical	attentio	n and special treatment needed		
Treat sy	mptomatically.				
	ON 5: Firefighting measures				
5.1.	Extinguishing media				
	extinguishing media	: Dry c	nemical powder, alcohol-resistant foam,	carbon dioxide (	CO2).
	ble extinguishing media	-	volume water jet.		
5.2.	Special hazards arising from the sul	hstance	or mixture		
-	us decomposition products in case of	: Haza	dous decomposition products may be re n monoxide and dioxide, nitrogen oxides		rolonged heating like smokes,
5.3.	Advice for firefighters				
Protectio	on during firefighting		attempt to take action without suitable atus. Complete protective clothing.	protective equip	ment. Self-contained breathing
SECTI	ON 6: Accidental release meas	sures			
6.1.	Personal precautions, protective eq	uipment	and emergency procedures		
6.1.1.	For non-emergency personnel				
Emerger	ncy procedures		uate unnecessary personnel. Ventilate sp ume/gas/mist/vapours/spray. Avoid cont		
6.1.2.	For emergency responders				
Protectiv	ve equipment		ot attempt to take action without suitable tion 8: "Exposure controls/personal prot		ment. For further information ref
6.2.	Environmental precautions				
Avoid re	lease to the environment. Prevent entry	to sewers	and public waters.		
6.3.	Methods and material for containme	ent and c	eaning up		
For cont			t spillage.		
Methods	for cleaning up		up liquid spill into absorbent material.		
6.4.	Reference to other sections				
No addit	ional information available				
SECTI	ON 7: Handling and storage				
7.1.	Precautions for safe handling				
Precauti	ons for safe handling	with s	t breathe spray, vapours. Use only outdokin and eyes. Wear personal protective	equipment.	
Hygiene	measures	: Do no produ	ot eat, drink or smoke when using this pro	oduct. Always w	ash hands after handling the

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7.2.	Conditions	tor sate storage	, including an	v incompatibilities

7.3. Specific end use(s)

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

# Professional use. See the label.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Appropriate engineering controls:

Engineering control of operator exposure must be used where reasonably practicable.

### Hand protection:

Protective gloves

#### Eye protection:

Face protection (faceshield)

### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Physical state	: Liquid – Oil Dispersion -			
Colour	: Off-white			
Odour	: Mild characteristic odor			
Odour threshold	: No data available			
pH	: 7.37 at 25°C <i>(CIPAC MT 75.3)</i>			
Relative evaporation rate (butylacetate=1)	: No data available			
Melting point	: No data available			
Solidification point	: No data available			
Boiling point	: No data available			
Flash point	: No flash point below 100°C (liquid boils at this temperature) (CIPAC MT12.2)			
Auto-flammability	: Auto-ignition temperature of 417 ± 6 °C (EEC Method A15)			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: See flash point results			
Vapour pressure	: No data available			
Relative vapour density at 20 °C	: No data available			
Relative density	: 0.9502 <i>(MT3.2.1)</i>			
Density	: No data available			
Solubility	: No data available			
Log Pow	: 0.61, pH=2.3~2.4 at 20~21°C (active ingredient)			
Log Kow	: No data available			
Viscosity, kinematic	: Not applicable			
Viscosity, dynamic	: Mean Viscosity = 584 cP with swirl speed of 50rpm at 25oC (non-Newtonian) (OECD 114)			
Explosive properties	: Not explosive.			
Oxidising properties	: Not an oxidiser. (Method A 21)			
Explosive limits	: No data available			
9.2. Other information				

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable at normal handling- and storage conditions.

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10.2.	Chemical stability			
Stable	Stable under normal conditions.			
10.3.	Possibility of hazardous reactions			
Not app	blicable.			
10.4.	Conditions to avoid			
All heat	sources.			
10.5.	Incompatible materials			
strong a	acids, strong bases and oxidation agents.			
10.6.	Hazardous decomposition products			
No add	No additional information available			

### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

PRIMERO®	
LD <sub>50</sub> oral rat	> 5000 mg/kg ( <i>OECD Guidelines n°425</i> )
LD <sub>50</sub> dermal rat	> 5050 mg/kg (OECD Guidelines n°402)
LC <sub>50</sub> inhalation rat	> 2.15 mg/L (OECD Guidelines n°403)
Skin corrosion/irritation	: Non irritating for the skin (OECD Guidelines n°404)
Serious eye damage/irritation	: Non irritating for the eyes (OECD Guidelines n°405)
Respiratory or skin sensitisation	: Non sensitising for the skin (OECD Guidelines n°406)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

# **SECTION 12: Ecological information**

12.1. Toxicity

PRIMERO®		
LC <sub>50</sub> fishes 96h	> 100 mg/l (Danio rerio) OECD Guidelines n°203	
	7.2 mg/L(Oncorhynchus mykiss) OECD Guidelines n°203	
NOEC fishes 96h	2.25 mg/L (Oncorhynchus mykiss) OECD Guidelines n°203	
EC <sub>50</sub> daphnia 48h	3.35 mg/L (Daphnia similis) OECD Guidelines n°204	
NOEC daphnia 48h	1.56 mg/L (Daphnia similis) OECD Guidelines n°204	
$EC_{50}$ algae 72h	26.87 mg/L (Pseudokirchneriella subcapitata) OECD Guidelines n°201	
NOEC algae 72h	<6.25mg/L (Pseudokirchneriella subcapitata) OECD Guidelines n°201	
ErC <sub>50</sub> other aquatic plant 7 days	0.060 mg/L (Lemna gibba L.) OECD Guidelines n°221	
NOEC other aquatic plant 7 days	0.024 mg/L (Lemna gibba L.) OECD Guidelines n°221	

## 12.2. Persistence and degradability

Nicosulfuron is not readily biodegradable.

12.3.	Bioaccumulative potential	
Log Pow	v = 0.61, pH=2.3~2.4 at 20~21°C (Active ingredie	ent : Nicosulfuron)
12.4.	Mobility in soil	
No additio	tional information available	
12.5.	Results of PBT and vPvB assessment	
No additio	tional information available	
12.6.	Other adverse effects	
	tional information available	
SECTIO	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
Regional	Il legislation (waste) : Dispe	osal must be done according to official regulations.

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SECTION 14: Transport information			
In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA			
14.1. UN number			
UN-No. (ADR)	: 3082		
UN-No. (IMDG)	: 3082		
UN-No. (IATA)	: 3082		
UN-No. (ADN)	: 3082		
UN-No. (RID)	: 3082		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Proper Shipping Name (IATA)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nicosulfuron), 9, III, (E)		
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nicosulfuron), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS		
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Nicosulfuron), 9, III, ENVIRONMENTALLY HAZARDOUS		
Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nicosulfuron), 9, III, ENVIRONMENTALLY HAZARDOUS		
Transport document description (RID)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nicosulfuron), 9, III, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: 9		

Danger labels (ADR)



: 9

: 9

: 9

### IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



## ΙΑΤΑ

Transport hazard class(es) (IATA) Hazard labels (IATA)

### ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

: 9 : 9

: 9

: 9

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#### RID Transport hazard class(es) (RID) : 9 Danger labels (RID) : 9



14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

#### 14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	90 3082
Tunnel restriction code (ADR)	: E
EAC code	: •3Z
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	: 274, 335, 969 : 5 L : E1 : P001, LP01

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Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L
- Inland waterway transport	
Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

# 15.1.1. EU-Regulations

No Annex XVII restrictions

Contains no REACH candidate substance

### 15.1.2. National regulations

No additional information available

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### 15.2. Chemical safety assessment

The mixture is registered as a plant protection product according to Regulation (EC) No.1107 / 2009.

# SECTION 16: Other information Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substance

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

This MSDS supersedes all previous editions.

PRIMERO<sup>®</sup> is a registered trademark of ROTAM.

### Full text of H- and EUH-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS EU (REACH Annex II)

Disclaimer: The information provided by Rotam Europe Ltd. contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.