

Safety Data Sheet

according to Regulation No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision Date:19-02-2020

Version: 3.2

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

Product identifier

Trade name : OCEAL®

Product Code FH-048 - Dicamba 700g/kg SG -

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

1.2.1. Relevant identified uses

: Professional use Main use category Use of the substance/preparation : Agriculture herbicide

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet 1.3.

ROTAM EUROPE LTD

Hamilton House, Mabledon Place

London WC1H 9BB Tel: +44 20 7953 0447 msds@rotam.com

Emergency telephone number 1.4.

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS Direct (England and Wales)		111	
United Kingdom	NHS 24 (Scotland)		111	

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements

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

Hazard symbols



Signal word (CLP)

Hazard statements (CLP) : H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-

hazardous waste

EUH phrases EUH401 - To avoid risks to human health and the environment, comply with the instructions for

PPP safety precautions : SP 1 - 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 additional information available

Safety Data Sheet

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dicamba	CAS No.) 1918-00-9 (EC no) 217-635-6	70	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412
mixture based on Sodium diisopropylnaphtalene sulphonate	(CAS No.) 1322-93-6 (EC no) 215-343-3	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 STOT SE 3, H335

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor

if you feel unwell.

First-aid measures after skin contact : Rinse immediately with plenty of water. In case of an skin reaction, consult a physician.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Hazardous decomposition products may be released during prolonged heating like smokes,

carbon monoxide and dioxide, nitrogen oxides (NOx).

Explosion hazard : Product is not explosive.

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

5.3. Advice for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Do not breathe

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and appropriate personal protective equipment

(PPE).

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Do not allow material to contaminate ground water system. Prevent entry to sewers, drains and public waters. Notify authorities if product enters drains, sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

No additional information available

Safety Data Sheet

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products : Strong bases. strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Avoid any unnecessary exposure. Use personal protective equipment that is clean and has been

properly maintained. Store personal protective equipment in a clean place, away from the work

area. Remove and wash contaminated clothing before re-using.

Hand protection : Wear suitable protective gloves. Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Ensure that there is adequate ventilation, especially in confined areas.

Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid – SG (Soluble granules)

Colour : Brown

Odour Solution Codour threshold Solution Solutio

pH : 7.33 1% solution (CIPAC MT 75)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : Dicamba: 114 – 116 °C(DAR Volume 1, November 2007)

Freezing point : No data available

Boiling point : Dicamba: > 230 °C(DAR Volume 1, November 2007)

Flash point : Not applicable
Self ignition temperature : No data available

Decomposition temperature : Dicamba: 230°C (DAR Volume 1, November 2007)

Flammability (solid, gas) : Not highly flammable (EEC A10)

Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : Tap Density: 0.625g/mL(CIPAC MT 169)

Solubility : Soluble in water
Log Pow : No data available

Log Kow : Dicamba: -1.88 pH 6.8(DAR Volume 1, November 2007)

Viscosity, kinematic : No data available Viscosity, dynamic : Not applicable

Explosive properties : Product is not explosive (EEC A14)

Oxidising properties : Not an oxidizer (EEC A17)

Explosive limits : Not applicable

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.

10.2. Chemical stability

Stable under normal conditions.

Safety Data Sheet

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

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

All heat sources, including direct sunlight.

10.5. Incompatible materials

Strong acids, strong bases and oxidation agents.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

OCEAL®	CEAL®	
LD50 oral rat	> 2000 mg/kg (OECD Guidelines n°423)	
LD50 dermal rat	> 2000 mg/kg (OECD Guidelines n°402)	
LC50 inhalation rat (mg/l)	> 4.44 mg/l/4h (OECD Guidelines n°403)	

Skin corrosion/irritation : Not irritant to skin (OECD Guideline n°404)
Serious eye damage/irritation : Not irritant to eyes (OECD Guideline n°405)
Respiratory or skin sensitisation : Not skin sensitizing (OECD Guideline n°406)

Repeated dose toxicity : Not classified

Carcinogenicity : No indication of a carcinogenicity effect for the active substance dicamba (DAR Volumne 1,

November 2007)

Mutagenicity : No genotoxic concern for the active substance dicamba (DAR Volumne 1, November 2007)

Toxicity for reproduction : No reproductive toxicity parameters observed for the active substance dicamba (DAR Volumne

1, November 2007)

Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

SECTION 12: Ecological information

12.1. Toxicity

OCEAL®	
EC50(Fish) 96h	>138.7 mg/L (Oncorhynchus mykiss) OECD Guidelines n°203
EC50 (Daphnia) 48h	182.5 mg/L (Daphnia magna) OECD Guidelines n°202
EC50 (Algae) 72h	>144 mg/L (Pseudokirchneriella subcapitata) OECD Guidelines n°201
EyC50-14 day (other aquatic plant)	2.58mg/L (Myriophyllum spicatum)OECD Guidelines n°201 and 221
NOEC-14 day (other aquatic plant)	2.22mg/L (Myriophyllum spicatum) OECD Guidelines n°201 and 221

12.2. Persistence and degradability

Dicamba is not persistent. Dicamba is not readily biodegradable.

12.3. Bioaccumulative potential

Dicamba		
	Log Kow	< 3 (DAR Volumne 1, November 2007)

12.4. Mobility in soil

 K_{oc} 242–2930, depending on soil.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. (ADR) : 3077 UN-No. (IMDG) : 3077

19-02-2020 EN (English) MSDS ref: MSDS_GB_FH-048_OCEAL_En_20200219

4/8

Safety Data Sheet

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

UN-No. (IATA) : 3077 UN-No. (ADN) : 3077 UN-No. (RID) : 3077

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dicamba), 9, III,

(E)

Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dicamba), 9, III,

MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3077 Environmentally hazardous substance, SOLID, n.o.s. (Dicamba), 9, III,

ENVIRONMENTALLY HAZARDOUS

Transport document description (ADN) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dicamba), 9, III,

ENVIRONMENTALLY HAZARDOUS

Transport document description (RID) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dicamba), 9, III,

ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9



IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9
Danger labels (ADN) : 9



RID

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



Safety Data Sheet

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

14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

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) : M7

Special provisions (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions : T1, BK1, BK2

(ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V13

(ADR)

Special provisions for carriage - Bulk (ADR) : VC1, VC2 Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates

90 3077

EAC code : 2Z

- Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P002, LP02

Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1, BK1, BK2, BK3

Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956

Safety Data Sheet

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

PCA max net quantity (IATA) : 400kg CAO packing instructions (IATA) : 956 CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA)

- Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 Carriage permitted (ADN) : T* B** : PP, A Equipment required (ADN) Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3 Mixed packing provisions (RID) : MP10 Portable tank and bulk container instructions : T1, BK1, BK2

(RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3 Special provisions for carriage - Packages : W13

(RID)

Special provisions for carriage – Bulk (RID) : VC1, VC2 Special provisions for carriage - Loading, : CW13, CW31

unloading and handling (RID)

Colis express (express parcels) (RID) : CE11

Hazard identification number (RID) : 90

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 REACH Annex XVII restrictions

Contains no REACH candidate substance

National regulations

No additional information available

Chemical safety assessment

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

SECTION 16: Other information

OCEAL® is a registered trademark of ROTAM.

This MSDS supersedes all previous editions.

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 substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006

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

Full text of H- and EUH-phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Acute Tox. 4 (inhal)	Acute toxicity (inhal) Category 4
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

SDS EU (REACH Annex II)

Disclaimer: The information provided by Rotam 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.