SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



 PACIFICA

 Version 6 / IRL
 Revision Date: 10.09.2014

 102000011400
 Print Date: 10.09.2014

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name PACIFICA
Product code (UVP) 06372880

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

**Use** Herbicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Ltd

Bayer Ltd

The Atrium, Blackthorn Road

Sandyford Dublin 18 Ireland

**Telephone** +353-1-2999313

Responsible Department Email: ukinfo@bayercropscience.com

1.4 Emergency telephone no.

Emergency telephone no. 1800-409-399

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Serious eye damage: Category 1

H318 Causes serious eye damage.

Acute aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi Irritant, R41

R66

N Dangerous for the environment, R50/53

#### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.





Signal word: Danger

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#### **Hazard statements**

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH208 Contains fatty alcohol ethoxylate alkyl ether. May produce an allergic reaction.

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

use.

#### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

+ P338 present and easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.

P501 Dispose of contents/container to a licensed waste disposal contractor or collection site,

except for triple rinsed empty containers which can be disposed of as non-hazardous

waste.

#### 2.3 Other hazards

No other hazards known.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2 Mixtures

#### **Chemical nature**

Water dispersible granules (WG)

lodosulfuron-methyl-sodium/Mesosulfuron-methyl/Mefenpyr-diethyl 1:3:9 % w/w

#### **Hazardous components**

R-phrase(s) according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No./	Classification		Conc. [%]
	EC-No.	EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Mesosulfuron- methyl, sodium salt	208465-19-4 606-652-8	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	3.00
lodosulfuron- methyl-sodium	144550-36-7	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	0.98
Mefenpyr-diethyl	135590-91-9 603-923-2	Not classified	Not classified	9.20
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt	68425-94-5 614-476-8	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	> 5.00 - < 10.00
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn; R65 R66 N; R51/53	Asp. Tox. 1, H304 Aquatic Chronic 2, H411	> 1.00 - < 25.00
Tetrapropylene benzene sulfonate, calcium salt	11117-11-6 234-360-7	Xn; R21 Xi; R38, R41 R52/53	Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318	> 1.00 - < 5.00

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			Aquatic Chronic 3, H412	
Fatty alcohol ethoxylate alkyl ether	345642-79-7	Xi; R38, R41 R43 N; R51/53	Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	> 1.00
Kaolin	1332-58-7 310-194-1	Not classified	Not classified	> 1.00
Silica, amorphe	7631-86-9 231-545-4	Not classified	Not classified	> 1.00

#### **Further information**

Mesosulfuron-	208465-19-4	M-Factor: 1,000 (acute)
methyl, sodium salt		
lodosulfuron- methyl-sodium	144550-36-7	M-Factor: 1,000 (acute)

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

#### **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures

**General advice** Move out of dangerous area. Victim to lie down in the recovery

position, cover and keep him warm. Remove contaminated clothing

immediately and dispose of safely.

**Skin contact** Wash off immediately with polyethylene glycol 400, then with plenty of

water. If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation

develops and persists.

**Ingestion** Do NOT induce vomiting. Rinse mouth, ingest activated charcoal. Call

a physician or poison control center immediately.

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

**Symptoms** No symptoms known or expected.

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

**Treatment** Treat symptomatically. Gastric lavage is not normally required.

However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is

no specific antidote.

#### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

Suitable Water spray, Foam, Dry powder, Carbon dioxide (CO2)

Unsuitable High volume water jet

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5.2 Special hazards arising from the substance or mixture

In the event of fire the following may be released:, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Hydrogen iodide (HI), Sulphur oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1 Personal precautions, protective equipment and emergency procedures

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective

authorities.

#### 6.3 Methods and materials for containment and cleaning up

objects thoroughly, observing environmental regulations. Keep in

suitable, closed containers for disposal.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

Advice on safe handling No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice. Ensure

adequate ventilation.

Advice on protection against fire and explosion

Avoid dust formation by friction.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly

before using again. Garments that cannot be cleaned must be

destroyed (burnt).

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized

persons only.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Suitable materials FIBC-P

FIBC-PP (Polypropylen; approx.1000 I)

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**7.3 Specific end uses** Refer to the label and/or leaflet.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Mesosulfuron-methyl, sodium salt	208465-19-4	10 mg/m3 (TWA)		OES BCS*
lodosulfuron-methyl-sodium	144550-36-7	1 mg/m3 (TWA)		OES BCS*
Mefenpyr-diethyl	135590-91-9	10 mg/m3 (OES BCS)		OES BCS*
Kaolin (Respirable dust.)	1332-58-7	2.0 mg/m3 (TWA)	2011	ELV (IE)
Silica, amorphe (Respirable dust.)	7631-86-9	2.4 mg/m3 (TWA)	2011	ELV (IE)
Silica, amorphe (Total inhalable dust.)	7631-86-9	6 mg/m3 (TWA)	2011	ELV (IE)

<sup>\*</sup>OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

#### Additional advice

Observe: Exposure Limits In Air, Group 3: 100 mg/m³/ 20 ppm. (aromatic-rich hydrocarbon mixes with > 25% aromatics TRGS 901, No. 72).

#### 8.2 Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection** Wear respirator with a particle filter mask (protection factor 4)

conforming to European norm EN149FFP1 or equivalent.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection Wear CE Marked (or equivalent) nitrile rubber gloves (minimum

thickness of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

**Eye protection** Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

**Skin and body protection** Wear standard coveralls and Category 3 Type 5 suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

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#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

water-dispersible granules **Form** 

Colour brown Odour aromatic

8.0 - 9.6 at 10 % (23 °C) (deionized water) pН

**Bulk density** 0.637 - 0.747 g/ml (loose)

Water solubility dispersible

Partition coefficient: n-

Mesosulfuron-methyl: log Pow: -0.48

octanol/water

Iodosulfuron-methyl-sodium: log Pow: -0.7 Mefenpyr-diethyl: log Pow: 3.83 at 21 °C

Impact Sensitivity Not impact sensitive.

**Combustion number** CN2 Short flaring without spreading

Oxidizing properties No oxidizing properties

**Explosivity** Not explosive **Dust content** nearly dust-free

9.2 Other information Further safety related physical-chemical data are not known.

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of

No hazardous reactions when stored and handled according to

prescribed instructions. Stable under recommended storage conditions. hazardous reactions

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

#### SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity LD50 (rat) > 2,000 mg/kg

Acute inhalation toxicity

Not relevant because of low dust formation.

Acute dermal toxicity LD50 (rat) > 5,000 mg/kg

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**Skin irritation** Slight irritant effect - does not require labelling. (rabbit)

**Eye irritation** Severe eye irritation. (rabbit) **Sensitisation** Non-sensitizing. (guinea pig)

OECD Test Guideline 406, Buehler test

#### Assessment repeated dose toxicity

Mesosulfuron-methyl did not cause specific target organ toxicity in experimental animal studies. Iodosulfuron-methyl-sodium did not cause specific target organ toxicity in experimental animal studies. Mefenpyr-diethyl did not cause specific target organ toxicity in experimental animal studies.

#### **Assessment Mutagenicity**

Mesosulfuron-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. lodosulfuron-methyl-sodium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Mefenpyr-diethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

#### **Assessment Carcinogenicity**

Mesosulfuron-methyl was not carcinogenic in lifetime feeding studies in rats and mice. Iodosulfuron-methyl-sodium was not carcinogenic in lifetime feeding studies in rats and mice. Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.

#### Assessment toxicity to reproduction

Mesosulfuron-methyl did not cause reproductive toxicity in a two-generation study in rats. Iodosulfuron-methyl-sodium did not cause reproductive toxicity in a two-generation study in rats. Mefenpyr-diethyl did not cause reproductive toxicity in a two-generation study in rats.

#### Assessment developmental toxicity

Mesosulfuron-methyl did not cause developmental toxicity in rats and rabbits. lodosulfuron-methyl-sodium did not cause developmental toxicity in rats and rabbits. Mefenpyr-diethyl caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.

#### **Further information**

Information given is based on data obtained from similar substances.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

**Toxicity to fish** LC50 (Oncorhynchus mykiss (Rainbow trout)) 7.5 mg/l

Exposure time: 96 h

**Toxicity to aquatic** EC50 (Water flea (Daphnia magna)) 13.1 mg/l

**invertebrates** Exposure time: 48 h

**Toxicity to aquatic plants** EC50 (Pseudokirchneriella subcapitata) > 3.2 mg/l

Growth rate; Exposure time: 72 h

EC50 (Lemna gibba (duckweed)) 0.62 µg/l

Exposure time: 7 d

The value mentioned relates to the active ingredient mesosulfuron-

methyl.

EC50 (Lemna gibba (duckweed)) 0.81 mg/l

Exposure time: 14 d

The value mentioned relates to the active ingredient iodosulfuron-

methyl-sodium.

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EC50 (Lemna gibba (duckweed)) > 12 mg/l

Exposure time: 7 d

The value mentioned relates to the active ingredient mefenpyr-diethyl.

#### 12.2 Persistence and degradability

**Biodegradability** Mesosulfuron-methyl:

not rapidly biodegradable lodosulfuron-methyl-sodium: not rapidly biodegradable

Mefenpyr-diethyl:

not rapidly biodegradable

**Koc** Mesosulfuron-methyl: Koc: 92

lodosulfuron-methyl-sodium: Koc: 45

Mefenpyr-diethyl: Koc: 625

#### 12.3 Bioaccumulative potential

**Bioaccumulation** Mesosulfuron-methyl:

Does not bioaccumulate. lodosulfuron-methyl-sodium: Does not bioaccumulate.

Mefenpyr-diethyl: Bioconcentration factor (BCF) 232

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Mesosulfuron-methyl: Moderately mobile in soils

lodosulfuron-methyl-sodium: Mobile in soils Mefenpyr-diethyl: Slightly mobile in soils

#### 12.5 Results of PBT and vPvB assessment

**PBT and vPvB assessment** Mesosulfuron-methyl: This substance is not considered to be persistent.

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

lodosulfuron-methyl-sodium: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Mefenpyr-diethyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

Information given is based on data obtained from similar substances.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

**Product** It is best to use all of the product in accordance with label directions. If it

is necessary to dispose of unused product, please follow container label

instructions and applicable local guidelines.

Contaminated packaging Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using

an integrated pressure rinsing device, or, by manually rinsing three

times.

Add washings to sprayer at time of filling.

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> Dispose of empty and cleaned packaging safely. Follow advice on product label and/or leaflet.

Waste key for the unused

product

**020108** agrochemical waste containing dangerous substances

#### **SECTION 14: TRANSPORT INFORMATION**

#### ADR/RID/ADN

14.1 UN number 3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 14.2 Proper shipping name

N.O.S.

(IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY

AROMATIC MIXTURE)

14.3 Transport hazard class(es) 9 14.4 Packing group Ш 14.5 Environm. Hazardous Mark YES Hazard no. 90 **Tunnel Code** Ε

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

#### **IMDG**

14.1 UN number 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY

AROMATIC MIXTURE)

14.3 Transport hazard class(es) 9 Ш 14.4 Packing group 14.5 Marine pollutant YES

#### **IATA**

14.1 UN number 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(IODOSULFURON-METHYL SODIUM, MESOSULFURON-METHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY

AROMATIC MIXTURE)

14.3 Transport hazard class(es) 9 14.4 Packing group Ш 14.5 Environm. Hazardous Mark YES

#### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

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

No transport in bulk according to the IBC Code.

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#### **SECTION 15: REGULATORY INFORMATION**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Republic of Ireland Regulations

This material may be subject to some or all of the following regulations (and any subsequent ammendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

#### Supply and Use

European Communities (Prohibition of Certain Active Substances in Plant Protection Products) Regulations 1981 (SI No 320/1981)

European Communities (Authorization, Placing on the Market, Use and Control of Plant Protection Products) Regulations 2003 (SI No 83/2003)

European Communities (Classification, Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations 2001 (SI No 624/2001

2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations, 2001 (SI No 619/2001)

#### **Waste Treatment**

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

#### **Further information**

WHO-classification: III (Slightly hazardous)

#### 15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

#### **SECTION 16: OTHER INFORMATION**

#### Text of R-phrases mentioned in Section 3

R21	Harmful in contact with skin.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

#### Text of the hazard statements mentioned in Section 3

H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 453/2010 amending Regulation (EU) No 1907/2006 (and any subsequent amendments). This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.