

CLAYTON PLANT PROTECTION

CLAYTON SMELTER Safety Data Sheet according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010. Version 1/dsc 8July2015. This version replaces all previous versions.

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

1.1. Product identifier **CLAYTON SMELTER**

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

Relevant identified uses: crop protection product : HERBICIDE

1.3. Details of the supplier of the safety data sheet

Clayton Plant Protection (UK) Ltd., Bracetown Business Park, Clonee, Dublin15. Ireland.

Tel: (00 353) 1 8210127 www.cpp.ag Email: info@cpp.ag

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008. Skin Sensitisation - Sub-category 1A - H317

Eye Irritation - Category 2 - H319. Acute aquatic toxicity - Category 1 - H400

Chronic aquatic toxicity - Category 1 - H410

For the full text of the H-Statements mentioned in this Section, see Section 16.



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

Xi – Irritant. N - Dangerous for the environment R43: May cause sensitisation by skin contact.

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


2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms		
		
Signal Word	:Warning	
Hazard Statements	:H317	May cause an allergic skin reaction.
	:H319	Causes serious eye irritation
	:H410	Very toxic to aquatic life with long lasting effects
Precautions Statements	:P102	Keep out of reach of children
	:P280	Wear protective gloves/protective clothing/eye protection/face protection.
	:P302/P352	IF ON SKIN: Wash with plenty of soap and water
	:P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.
	:P337/P313	If eye irritation persists: Get medical advice/attention.
	:P363	Wash contaminated clothing before reuse.
	: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.
Supplemental Information	:EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label: S-metolachlor

Labelling: EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)		
		
IRRITANT	DANGEROUS FOR THE ENVIRONMENT	
R-phrase(s)	R43	May cause sensitization by skin contact.
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	S2	Keep out of the reach of children
	S13	Keep away from food, drink and animal feedingstuffs
	S20/21	When using do not eat, drink or smoke
	S35	This material and its container must be disposed or in a safe way
	S36/37	Wear suitable protective clothing and gloves.
	S57	Use appropriate containment to avoid environmental contamination
Special labelling of certain mixtures	To avoid risks to man and the environment, comply with instructions for use.	

Hazardous components which must be listed on the label: S-metolachlor

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2.3 Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
S-metolachlor	87392-12-9	Xi, N R43 R50/53	Skin Sens.1B; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	86.5 % WW
solvent naphtha (petroleum), highly arom.	64742-94-5 265-198-5 922-153-0 01-2119451097-39- 0002	Xn, N R51/53 R65 R66	Asp. Tox.1; H304 Aquatic Chronic2; H411	1- 5 % WW
calcium dodecylbenzene sulphonate	26264-06-2 84989-14-0 90194-26-6 247-557-8 284-903-7 290-635-1	Xi R38 R41	Skin Irrit.2; H315 Eye Dam.1; H318	1- 5 % WW
poly(oxy-1,2-eth anedyl)-[2,4,6- tris(1-phenylethyl) phenyl]-hydroxy-	99734-09-5 70559-25-0	R52/53	Aquatic Chronic3; H412	1- 5 % WW
2-methylpropan-1-ol	78-83-1 201-148-0 01-2119484609-23- 0012	Xi R10 R37/38 R41 R67	Flam. Liq.3; H226 STOT SE3; H335 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H336	1- 2 % WW

Substances for which there are Community workplace exposure limits.

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice : Have the product container, label or Material Safety Data Sheet with you when calling, a poison control centre or physician, or going for treatment.

Inhalation : Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or poison control centre immediately.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice : There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires Use alcohol-resistant foam or water spray. Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

5.3 Advice for fire-fighters: Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections



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Refer to protective measures listed in sections 7 and 8. Refer to disposal considerations listed in section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
S-metolachlor	10 mg/m ³	8 h TWA	SYNGENTA
2-methylpropan-1-ol	1,600 ppm 50 ppm 100 ppm 50 ppm 100 ppm 50 ppm, 231 mg/m ³	8 h TWA 15 min STEL 8 h TWA 8 h TWA 8 h TWA	NIOSH SUVA SUVA ACGIH DFG UK HSE

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2 Exposure controls

Engineering measures : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne dust is generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection : No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

Hand protection : Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected. Suitable material: nitrile rubber.

Eye protection : Eye protection is not usually required. Follow any site specific eye protection policies.

Skin and body protection : Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.). Wear as appropriate: impervious protective suit.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State : liquid Form : liquid. Colour : Light yellow to dark brown. Odour : No data available Odour Threshold : No data available pH : 4 - 8 at 1 % w/v Melting point/range : No data available Boiling point/boiling range : No data available Flash point : 81 °C at 101.6 kPa Pensky-Martens c.c. Evaporation rate : No data available Flammability (solid, gas) : No data available Lower explosion limit : No data available	Upper explosion limit : No data available Vapour pressure : No data available Relative vapour density : No data available Density : 1.11 g/cm ³ Solubility in other solvents : No data available Partition Coefficient n-octanol/water : No data available Autoignition temperature : 425 °C Thermal decomposition : No data available Viscosity, dynamic : 128 mPa.s at 20 °C 36.6 mPa.s at 40 °C Viscosity, kinematic : No data available Explosive properties : Not explosive Oxidizing properties : Not oxidising
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9.2 Other Information : Surface tension: 32.1 mN/m at 20 °C

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : No information available

10.2 Chemical Stability : No information available

10.3 Possibility of hazardous reactions : None known. Hazardous polymerisation does not occur.

10.4 Conditions to avoid : No information available



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10.5 Incompatible materials : No information available

10.6 Hazardous decomposition products : Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11. ECOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity : LD50 female rat, 2,149 mg/kg. LD50 male rat, 3,937 mg/l

The toxicological data has been taken from products of similar composition

Acute inhalational toxicity : LC50 male and female rat, > 5.09 mg/l, 4 h

The toxicological data has been taken from products of similar composition

Acute dermal toxicity : LD50 male and female rabbit, > 2,020 mg/kg

The toxicological data has been taken from products of similar composition

Skin corrosion/irritation : Rabbit, slightly irritating

The toxicological data has been taken from products of similar composition

Serious eye damage/eye irritation : Rabbit, moderately irritating

The toxicological data has been taken from products of similar composition

Respiratory or skin sensitisation : Maximisation Test guinea pig, a skin sensitiser in animal tests.

The toxicological data has been taken from products of similar composition

Germ cell mutagenicity

S-metalochlor : Did not show mutagenic effects in animal experiments.

Calcium dodecylbenzene sulphonate : Did not show mutagenic effects in animal experiments.

2-methylpropan-1-ol : Did not show mutagenic effects in animal experiments.

Carcinogenicity

S-metalochlor : Did not show carcinogenic effects in animal experiments.

Calcium dodecylbenzene sulphonate : Did not show carcinogenic effects in animal experiments.

2-methylpropan-1-ol : Did not show carcinogenic effects in animal experiments.

Teratogenicity

S-metalochlor : Did not show teratogenic effects in animal experiments.

Reproductive toxicity

S-metalochlor : Did not show reproductive toxicity effects in animal experiments.

Calcium dodecylbenzene sulphonate : Did not show reproductive toxicity effects in animal experiments.

2-methylpropan-1-ol : Did not show reproductive toxicity effects in animal experiments.

STOT – single exposure

2-methylpropan-1-ol : May cause drowsiness or dizziness.

STOT – repeated exposure

S-metalochlor : No adverse effect has been observed in chronic toxicity tests.

Calcium dodecylbenzene sulphonate : No adverse effect has been observed in chronic toxicity tests.

2-methylpropan-1-ol : No adverse effect has been observed in chronic toxicity tests.

Aspiration toxicity

Solvent naphtha (petroleum), highly arom. : The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. TOXICOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout), 8.8 mg/l, 96 h

Toxicity to aquatic invertebrates : EC50 *Daphnia magna* (water flea), 28 mg/l, 48 h

Toxicity to aquatic plants: EC50 *Pseudokirchneriella subcapitata* (green algae), 0.09 mg/l, 96 h

12.2 Persistence and degradability

Biodegradability. **S-metalochlor** : Not readily biodegradable

Stability in water. **S-metalochlor** : Degradation half life: 53 - 147 d. Not persistent in water

Stability in soil **S-metalochlor** : Degradation half life: 12 - 46 d. Not persistent in soil

12.3 Bioaccumulative potential : **S-metalochlor** : Does not bioaccumulate.

12.4 Mobility in soil : **S-metalochlor** : Medium mobility in soil.

12.5 Results of PBT and vPvB assessment : **S-metalochlor** : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects : None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION


Land transport (ADR/RID)		
14.1	UN Number	: UN 3082
14.2	UN proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-METALOCHLOR)
14.3	Transport hazard class(es)	: 9
14.4	Packing Group	: III
Labels		: 9
14.5	Environmental hazards	: Environmentally hazardous
Sea transport (IMDG)		
14.1	UN Number	: UN 3082
14.2	UN proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-METALOCHLOR)
14.3	Transport hazard class(es)	: 9
14.4	Packing Group	: III
Labels		: 9
14.5	Environmental hazards	: Marine Pollutant
Air transport (IATA-DGR)		
14.1	UN Number	: UN 3082
14.2	UN proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (S-METALOCHLOR)
14.3	Transport hazard class(es)	: 9
14.4	Packing Group	: III
Labels		: 9
14.6	Special precautions for user	: none

14.6 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

GHS-Labeling :

Hazard pictograms		
		
Signal Word	:Warning	
Hazard Statements	:H317	May cause an allergic skin reaction.
	:H319	Causes serious eye irritation
	:H410	Very toxic to aquatic life with long lasting effects
Precautions Statements	:P102	Keep out of reach of children
	:P280	Wear protective gloves/protective clothing/eye protection/face protection.
	:P302/P352	IF ON SKIN: Wash with plenty of soap and water
	:P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing.
	:P337/P313	If eye irritation persists: Get medical advice/attention.
	:P363	Wash contaminated clothing before reuse.
	: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.
Supplemental Information	:EUH401	To avoid risks to human health and the environment comply with the instructions for use.

Hazardous components which must be listed on the label: S-metolachlor

15.2 Chemical Safety Assessment : A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3: R10 Flammable. R37/38 Irritating to respiratory system and skin. R38 Irritating to skin.	Full text of H-Statements referred to under sections 2 and 3. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation.
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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. R67 Vapours may cause drowsiness and dizziness.	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. 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.
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The information provided in this 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.