

## SAFETY DATA SHEET

### Section 1: IDENTIFICATION

<b>Product Name:</b>	<b>BOXER GOLD</b>
<b>Design Code:</b>	A14429B
<b>Recommended Use:</b>	<b>Herbicide</b>
<b>Company Details:</b>	<b>Syngenta Crop Protection Limited</b>
<b>Address:</b>	<b>Tower II, Level 7, 110 Symonds Street Private Bag 92618, Symonds Street AUCKLAND NEW ZEALAND</b>
<b>Telephone number:</b>	<b>(weekdays) 09 306 1500</b>
<b>Emergency Telephone number:</b>	<b>(24 Hours) 0800 734 607</b>
<b>National Poisons &amp; Hazchem Information Centre :</b>	<b>0800 POISON (0800 764 766)</b>

### Section 2: HAZARDS IDENTIFICATION

<b>Hazard classification:</b>	3.1D, 6.1E (oral), 6.3B, 6.9B (oral and inhalation), 9.1A, 9.2A
<b>Priority Identifier:</b>	WARNING KEEP OUT OF REACH OF CHILDREN
<b>Secondary Identifiers:</b>	3.1D = Combustible liquid. 6.1D/E = Maybe harmful if swallowed. 6.3B = Causes mild skin irritation. 6.9B = May cause damage to target organs from repeated oral exposure at high doses. 9.1A = Very toxic to aquatic life. 9.2A = Very toxic to soil environment.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

<b>Mixture:</b>		
<b>Chemical Identity of ingredients:</b>		
<b>Ingredient</b>	<b>CAS no.</b>	<b>Content (%w/w)</b>
Prosulfocarb	52888-80-6	>=70-<90
S-metolachlor	87392-12-9	>= 10-<20
Solvent naphtha (petroleum), heavy arom.	64742-94-5	>=2.5-<10
Calcium dodecylbenzene sulphonate	26264-06-2	>=3-<10
2-methylpropan-1-ol	78-83-1	>=1-<3
other ingredients determined not to be hazardous	-	to 100%

### Section 4: FIRST AID MEASURES

<b>Description of First Aid measures:</b>	
<b>General Advice:</b>	For advice contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
<b>If inhaled:</b>	Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a Doctor or the National Poisons Centre immediately.

<b>In case of skin contact:</b>	Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.
<b>In case of eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses (if present). Immediate medical attention is required.
<b>If swallowed:</b>	If swallowed seek medical advice immediately and show the container or label. DO NOT induce vomiting: contains petroleum distillates and/or aromatic solvents.
<b>Important symptoms and effects, both acute and delayed:</b>	
Symptoms:	Aspiration may cause pulmonary oedema and pneumonitis.
<b>Indication of any immediate medical attention and special treatment needed:</b>	
Treatment:	There is no specific antidote available. Treat symptomatically. DO NOT induce vomiting: contains petroleum distillates and / or aromatic solvents.

**Section 5: FIRE-FIGHTING MEASURES**

<b>Extinguishing media:</b>	
<b>Suitable extinguishing media:</b>	Small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Large Fires: Alcohol resistant foam.
<b>Unsuitable extinguishing media:</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Special hazards arising from the substance or mixture:</b>	
<b>Specific hazards during fire-fighting:</b>	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. Flash back possible over considerable distance.
<b>Advice for firefighters:</b>	
<b>Special protective equipment for firefighters:</b>	Wear full protective clothing and self-contained breathing apparatus.
<b>Further information:</b>	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: ACCIDENTIAL RELEASE MEASURES

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

Refer to protective measures listed in Sections 7 and 8.

### **Environmental Precautions:**

Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### **Methods and material for containment and cleaning up:**

Contain spillage, and then collect with non-combustible absorbent material, (eg, sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations (see section 13).  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

### **Reference to other sections:**

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

## Section 7: HANDLING AND STORAGE

### **Precautions for Safe handling:**

Advice on 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.

### **Conditions for safe storage, including any incompatibilities:**

Requirements for storage areas and containers:

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

### **Specific end use(s)**

**Specific use(s)**

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

## Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Control Parameters</b>				
<b>Occupational Exposure Limits:</b>				
Components	CAS No	Exposure limit	Type of exposure limit	Source
Prosulfocarb	52888-80-9	4 mg/m <sup>3</sup>	TWA	Syngenta
S-metolachlor	87392-12-9	5 mg/m <sup>3</sup>	TWA	Syngenta
Solvent naphtha (petroleum), heavy arom.	64742-94-5	8 ppm 50 mg/m <sup>3</sup>	TWA	Supplier
2-methylpropan-1-ol	78-83-1	50 ppm 152 mg/m <sup>3</sup>	TWA	WES 2018
<b>Exposure controls</b>				
<b>Engineering measures:</b>		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. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.		
<b>Personal Protective Protection:</b>				
<b>Eye protection:</b>		No special protective equipment required.		
<b>Hand protection:</b>		No special protective equipment required.		
<b>Remarks:</b>		No special protective equipment required.		
<b>Skin and body protection:</b>		No special protective equipment required. Select skin and body protection based on the physical job requirements.		
<b>Respiratory protection:</b>		No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
<b>Protective measures:</b>		The use technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.		

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Information on basic physical and chemical properties:</b>	
<b>Appearance:</b>	liquid
<b>Colour:</b>	Slightly yellowish to brown
<b>Odour:</b>	No data
<b>Odour threshold:</b>	No data
<b>pH value</b>	4-8, concentration: 1% w/v
<b>Melting point / freezing point:</b>	No data
<b>Initial boiling point and boiling range:</b>	No data
<b>Flash point:</b>	85°C (1015.0 hPa) Method: Pensky-Martens closed cup
<b>Flammability:</b>	No data
<b>Upper / lower flammability / explosive limits:</b>	No data
<b>Vapour pressure:</b>	No data
<b>Vapour Density:</b>	No data
<b>Density:</b>	1.046 g/cm <sup>3</sup> (25°C)
<b>Solubility:</b>	No data
<b>Partition co-efficient: n-octanol / water:</b>	No data
<b>Autoignition temperature</b>	365°C

<b>Decomposition temperature:</b>	No data
<b>Dynamic viscosity:</b>	13.8 mPa.s (40°C) 32.1 mPa.s (20°C)
<b>Explosive properties:</b>	Not explosive
<b>Oxidising properties:</b>	Not oxidising

## Section 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	None reasonably foreseeable.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to Avoid</b>	No decomposition if used as directed.
<b>Incompatible Materials:</b>	None known
<b>Hazardous Decomposition Products:</b>	No hazardous decomposition products are known.

## Section 11: TOXICOLOGICAL INFORMATION

<b>HSNO Classifications:</b>	6.1E = May be harmful if swallowed. 6.3B = Causes mild skin irritation. 6.9A = May cause target organ damage from repeated oral exposure at high doses.
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<b>Acute toxicity (product)</b>	
Swallowed:	LD <sub>50</sub> >2000 mg/kg (rat, female)
Dermal absorption:	LD <sub>50</sub> >2000 mg/kg (rat, male and female)
Inhaled:	No product data. Based on ai values: Prosulfocarb: LC <sub>50</sub> >4.78 mg/L air (rat) S-Metolachlor: LC <sub>50</sub> >2.91 mg/L air (rat)
Aspiration hazard:	<b>Not classified</b>
Respiratory irritation:	<b>Not classified</b>
Skin corrosion / irritation:	<b>Mild irritant</b> (rabbit/HSNO Classification)
Eye damage / irritation:	<b>NON-IRRITANT</b> (rabbit)
Respiratory or Skin Sensitisation:	<b>NOT A SENSITISER</b> (skin - guinea pig)
<b>Chronic / Long Term Effects (active ingredients)</b>	
Germ cell mutagenicity:	Animal testing did not show any mutagenic effects.
Carcinogenicity:	No evidence of carcinogenicity in animal studies.
Reproductive toxicity:	No toxicity to reproduction.
Specific Organ toxicity:	<i>Single exposure:</i> The substance or mixture is not classified as specific target organ toxicant, single exposure. <i>Repeated exposure:</i> The substance or mixture is classified as specific target organ toxicant, repeated exposure, Class 6.9B
Narcotic Effects:	Not classified

## Section 12: ECOLOGICAL INFORMATION

<b>HSNO Classifications:</b>	9.1A = Very toxic to aquatic organisms. 9.2A = Very toxic to the soil environment.
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<b>Ecotoxicity Effects – aquatic (product)</b>	
<b>Acute toxicity to fish:</b>	LC <sub>50</sub> (96 h) = 3.5 mg/L ( <i>Onchorhynchus mykiss</i> [rainbow trout])
<b>Toxicity to daphnia:</b>	EC <sub>50</sub> (48h) = 0.56 mg/L ( <i>Daphnia magna</i> (water flea))
<b>Toxicity to algae:</b>	EC <sub>50</sub> (72 h) = 0.121 mg/L ( <i>Pseudokirchneriella subcapitata</i> [green algae])
<b>Ecotoxicity Effects – terrestrial (active ingredient)</b>	
<b>Toxicity to Birds:</b>	Prosulfocarb: LD <sub>50</sub> (21d) = >2250 mg/kg (Bobwhite quail) S-Metolachlor: LD <sub>50</sub> (21d) = >2510 mg/kg (Bobwhite quail)
<b>Toxicity to soil dwelling organisms:</b>	LC <sub>50</sub> (14 days) = >1000 mg/kg (earthworms)
<b>Toxicity to Bees:</b>	Prosulfocarb: LD <sub>50</sub> (oral) = >213 µg/bee Prosulfocarb: LD <sub>50</sub> (contact) = >80 µg/bee S-Metolachlor: LD <sub>50</sub> (oral) = 85 µg/bee S-Metolachlor: LD <sub>50</sub> (contact) = >200 µg/bee
<b>Persistence and degradability:</b>	
<b>Biodegradability:</b>	Prosulfocarb: Not readily biodegradable S-Metolachlor: Not readily biodegradable
<b>Stability in water:</b>	Prosulfocarb: Degradation half-life: 159-279 d Persistent in water. S-Metolachlor: Degradation half-life: 53-147 d Not persistent in water.
<b>Bioaccumulative potential:</b>	
<b>Bioaccumulation:</b>	Prosulfocarb: Bioaccumulates S-Metolachlor: Does not bioaccumulate.
<b>Partition coefficient: n-octanol/water:</b>	Prosulfocarb: Log Pow: 4.48 at pH5 to pH 9 a S-Metolachlor: Log Pow: 3.05 (25°C)
<b>Mobility in soil:</b>	
<b>Distribution among environmental compartments:</b>	Prosulfocarb: Slightly mobile in soils. S-Metolachlor: Moderately mobile in soils.
<b>Stability in soil:</b>	Prosulfocarb: Dissipation time: 35 d Percentage dissipation: 50% Not persistent in soil. S-Metolachlor: Dissipation time: 12-46 d Percentage dissipation: 50% Not persistent in soil.
<b>Other adverse effects:</b>	
<b>Results of PBT and vPvB assessment (product):</b>	This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Section 13: DISPOSAL CONSIDERATIONS

<b>Product Disposal:</b>	DO NOT contaminate ponds, waterways or ditches with chemical or used containers. DO NOT dispose of waste into sewer. Dispose of this product only by using according to the label. Otherwise, dispose of waste at an approved landfill or other approved facility that will ensure the substance does not exceed the tolerable exposure limit (TEL) or environmental exposure limit (EEL), where relevant, or will treat the substance so that it is rendered no longer hazardous.
<b>Container Disposal:</b>	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

### Section 14: TRANSPORT INFORMATION

<b>Rail / Road (NZS 5433)</b>	UN-No:	3082
	Class:	9
	Packing Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prosulfocarb and s-Metolachlor)
<b>Sea (IMDG-Code)</b>	UN-No:	3082
	Class:	9
	Packing Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prosulfocarb and s-Metolachlor)
	EmS Code:	F-A, S-F
	MARINE POLLUTANT:	Yes
<b>Air (IATA)</b>	UN-No:	3082
	Class:	9
	Packing Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Prosulfocarb and s-Metolachlor)
	Packing Instruction:	Y964 (cargo and passenger)

### Section 15: REGULATORY INFORMATION

<b>HSNO Approval Number:</b>	HSR101435
<b>Tolerable Exposure Limit or Environmental Exposure Limit:</b>	None set
<b>Required Regulatory Controls:</b>	
<b>Certified handler:</b>	No
<b>Tracking:</b>	No
<b>Record Keeping:</b>	Yes (9.1A, 9.2A substance)
<b>ACVM Registration:</b>	P 9076
<b>ACVM Controls:</b>	See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions.
<b>International Agreements related to the substance (eg, Montreal Protocol, Stockholm Convention or Rotterdam Convention):</b>	

### Section 16: OTHER INFORMATION

<b>Date of SDS Preparation / Review:</b>	28 August 2020
<b>Version number of SDS:</b>	1
<b>Key / Legend to abbreviations and acronyms used:</b>	
AICS - Australian Inventory of Chemical Substances;	MARPOL - International Convention for the Prevention of Pollution from Ships;
ANTT - National Agency for Transport by Land of Brazil;	n.o.s. - Not Otherwise Specified;
ASTM - American Society for the Testing of Materials;	Nch - Chilean Norm;
bw - Body weight;	NO(A)EC - No Observed (Adverse) Effect Concentration;
CMR -Carcinogen, Mutagen or Reproductive Toxicant;	NO(A)EL - No Observed (Adverse) Effect Level;
CPR - Controlled Products Regulations;	

DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);	NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WES - Workplace Exposure Standard (Worksafe NZ) WHMIS - Workplace Hazardous Materials Information System
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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 test.

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