

## SAFETY DATA SHEET

### Section 1: IDENTIFICATION

**Product Name:** ADIGOR  
**Design Code:** A12127R  
**Recommended Use:** Adjuvant  
**Company Details:** Syngenta Crop Protection Limited  
**Address:** Level 4,  
60 Parnell Road,  
Parnell  
AUCKLAND 1052  
NEW ZEALAND

**Telephone number:** (weekdays) 09 306 1500  
**Emergency Telephone number:** (24 Hours) 0800 734 607  
**National Poisons & Hazchem Information Centre :** 0800 POISON (0800 764 766)

### Section 2: HAZARDS IDENTIFICATION

**Hazard classification:** 6.5B, 9.1A  
**Priority Identifier:** WARNING  
KEEP OUT OF REACH OF CHILDREN

**Secondary Identifiers:** 6.5B = May cause sensitisation from prolonged skin contact.  
9.1A = Very toxic to aquatic organisms.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

**Mixture:**

**Chemical Identity of ingredients:**

Ingredient	CAS no.	Content (% w/v)
Methyl esters of canola oil fatty acids	67762-26-9	440
(E)-18-ethoxyoctadec-3-ene	68920-66-1	>= 25 - < 30
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	>= 20 - < 25
Naphthalene	91-20-3	>= 0.1 - < 0.25

### Section 4: FIRST AID MEASURES

**Description of First Aid measures:**

**General Advice:** 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.

**If inhaled:** 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 Poisons Information Centre immediately.

**In case of skin contact:** 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>	
<b>Symptoms:</b>	Aspiration may cause pulmonary oedema and pneumonitis.
<b>Indication of any immediate medical attention and special treatment needed:</b>	
	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 or water spray.
<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.
<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.
<b>Hazchem Code:</b>	2X

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	
	Refer to protective measures listed in Sections 7 and 8.
<b>Environmental Precautions:</b>	
	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.
<b>Methods and material for containment and cleaning up:</b>	
	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). Clean contaminated surface thoroughly.

	Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.
<b>Reference to other sections:</b>	Refer to disposal considerations listed in Section 13. Refer to protective measures listed in sections 7 and 8.

**Section 7: HANDLING AND STORAGE**

<b>Precautions for Safe handling:</b>	
<b>Advice on safe handling:</b>	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.
<b>Conditions for safe storage, including any incompatibilities:</b>	
<b>Requirements for storage area and containers:</b>	Avoid storage below 0°C and above 35°C. 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.
<b>Specific end use(s)</b>	
<b>Specific use(s)</b>	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	Value type (form of exposure)	Control parameters	Basis
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	TWA	8 ppm 50 mg/m <sup>3</sup>	Supplier
naphthalene	91-20-3	TWA	10 ppm 52 mg/m <sup>3</sup>	WES
naphthalene	91-20-3	STEL	15 ppm 79 mg/m <sup>3</sup>	WES
<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>	Tightly fitting safety goggles or face shield. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.			
<b>Hand protection:</b>				
<b>Material:</b>	Chemical resistant, such as nitrile rubber			
<b>Break through time:</b>	>480 min			
<b>Glove thickness:</b>	0.5 mm			
<b>Remarks:</b>	Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the			

	contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
<b>Skin and body protection:</b>	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Remove and wash contaminated clothing before re-use. Wear as appropriate: Protective clothing including overalls.
<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. Suitable respiratory equipment: Respirator with combination filter for vapour/particulate (EN 141) The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
<b>Filter type:</b>	Combined particulates and organic vapour type (A-P)
<b>Protective measures:</b>	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.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### *Information on basic physical and chemical properties:*

<b>Appearance:</b>	Liquid
<b>Colour:</b>	Light yellow to yellow liquid
<b>Odour:</b>	Aromatic, like solvent
<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>	123°C at 766 mmHg
<b>Flammability:</b>	No data
<b>Upper flammability / explosive limits:</b>	No data
<b>Lower flammability / explosive limits</b>	No data
<b>Vapour pressure:</b>	No data
<b>Vapour Density:</b>	No data
<b>Relative Density:</b>	0.927 g/cm <sup>3</sup> (20°C)
<b>Solubility:</b>	No data
<b>Partition co-efficient: n-octanol / water:</b>	No data
<b>Autoignition temperature</b>	290°C
<b>Decomposition temperature:</b>	No data
<b>Dynamic viscosity:</b>	15.1 mPa.s at 20°C 8.05 mPa.s at 40°C
<b>Explosive properties:</b>	Not explosive
<b>Oxidising properties:</b>	Not oxidising
<b>Surface tension</b>	32.4 mN/m at 25°C

## Section 10: STABILITY AND REACTIVITY

<b>Reactivity:</b> See Section: "Possibility of Hazardous Reactions".
<b>Chemical Stability:</b> The product is stable when used in normal conditions.
<b>Possibility of Hazardous Reactions:</b> No hazardous reactions by normal handling and storage according to provisions.
<b>Conditions to Avoid</b> No decomposition if used as directed.
<b>Incompatible Materials:</b> No substances are known which lead to the formation of hazardous substances or thermal reactions.
<b>Hazardous Decomposition Products:</b> Combustion or thermal decomposition will evolve toxic and irritant vapors. Carbon dioxide, carbon monoxide, nitrogen oxides, sulphur dioxide.

## Section 11: TOXICOLOGICAL INFORMATION

### HSNO Classifications:

6.5B = May cause sensitisation from prolonged skin contact.

<b>Acute toxicity (product)</b>	
Swallowed:	LD <sub>50</sub> >5000 mg/kg (rat, female)
Dermal absorption:	LD <sub>50</sub> >5000 mg/kg (rat, male and female))
Inhaled:	LC <sub>50</sub> (4 h) > 2.57 mg/L (rat, male and female)
Aspiration hazard:	Solvent naphtha (petroleum), heavy arom: May be fatal if swallowed and enters airways.
Respiratory irritation:	Not classified
Skin corrosion / irritation:	<b>NON-IRRITANT</b> (rabbit/ HSNO Classification)
Eye damage / irritation:	<b>NON-IRRITANT</b> (rabbit/ HSNO Classification)
Respiratory or Skin Sensitisation:	<b>SKIN SENSITISER</b> (guinea pigs - Buehler test)
<b>Chronic / Long Term Effects (active ingredient)</b>	
Germ cell mutagenicity:	Animal testing did not show any mutagenic effects.
Carcinogenicity:	Naphthalene: limited evidence of carcinogenicity in animal studies.
Reproductive toxicity:	No data
Specific Organ toxicity:	<i>Single and repeated exposure:</i> The substance or mixture is not classified as specific target organ toxicant single or repeated exposure.
Narcotic Effects:	Not classified.

## Section 12: ECOLOGICAL INFORMATION

<b>HSNO Classifications:</b>	
9.1A =	Very toxic to aquatic organisms.
<b>Ecotoxicity Effects - Aquatic (product)</b>	
<b>Acute toxicity to fish:</b>	LC <sub>50</sub> (96 h) = 9.6 mg/L ( <i>Oncorhynchus mykiss</i> (rainbow trout))
<b>Toxicity to daphnia and other aquatic invertebrates:</b>	EC <sub>50</sub> (48h) = 7.1 mg/L ( <i>Daphnia magna</i> (water flea))
<b>Toxicity to algae:</b>	E <sub>b</sub> C <sub>50</sub> (72 h) = 0.51 mg/L ( <i>Pseudokirchneriella subcapitata</i> (green algae)) E <sub>r</sub> C <sub>50</sub> (72 h) = 1.22 mg/L ( <i>Pseudokirchneriella subcapitata</i> (green algae))
<b>Ecotoxicity Effects – Terrestrial</b>	
<b>Toxicity to Birds:</b>	No data
<b>Toxicity to soil dwelling organisms:</b>	No data
<b>Toxicity to Bees:</b>	No data
<b>Persistence and degradability:</b>	
<b>Biodegradability:</b>	(E)-18-ethoxyoctadec-3-ene: readily biodegradable
<b>Stability in water:</b>	Not persistent in water.
<b>Bioaccumulative potential:</b>	
<b>Bioaccumulation:</b>	No data
<b>Mobility in soil:</b>	
<b>Distribution among environmental compartments:</b>	No data
<b>Stability in soil:</b>	No data
<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

Product Disposal:	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.
Container Disposal:	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, <a href="http://www.agrecovery.co.nz">www.agrecovery.co.nz</a> ). 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. (solvent naphtha)
<b>Sea (IMDG-Code)</b>	UN-No:	3082
	Class:	9
	Packing Group:	III
	Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (solvent naphtha)
	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. (solvent naphtha)
	Packing instruction:	964 (cargo and passenger aircraft)
	Packing instruction (LQ):	Y964 (cargo and passenger aircraft)

## Section 15: REGULATORY INFORMATION

<b>HSNO Approval Number:</b>	HSR002503
<b>Tolerable Exposure Limit or Environmental Exposure Limit:</b>	No TEL or EEL values are set for this substance at this time
<b>Required Regulatory Controls:</b>	
<b>Certified handler:</b>	No
<b>Tracking:</b>	No
<b>Record Keeping:</b>	No
<b>ACVM Registration:</b>	Not applicable
<b>ACVM Controls:</b>	Not applicable
<b>International Agreements related to the substance (eg, Montreal Protocol, Stockholm Convention or Rotterdam Convention):</b>	Not applicable

## Section 16: OTHER INFORMATION

<b>Date of SDS Preparation / Review:</b>	24 February 2023
<b>Version number of SDS:</b>	6.0
<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;	NOELR - No Observable Effect Loading Rate;
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);

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

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.

This version replaces all previous versions.

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