

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

SECTION 1. IDENTIFICATION

Product identifier

Product name MCPA Ester 600

Other means of identification

Product code 50002724

Product Registration Number 32311; 34073

Recommended use of the chemical and restrictions on use

Recommended use Can be used as herbicide only.

Restrictions on use Use as recommended by the label.

Details of the supplier of the safety data sheet**Manufacturer**

FMC of Canada Ltd
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
Canada
Phone (AgHotline): 1-833-FMC-PPAC (1-833-362-7722),
Web: <https://ag.fmc.com/ca/en>
SDS-Info@fmc.com

Supplier Address

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
Canada

Emergency telephone

For leak, fire, spill or accident emergencies, call:
1 800 / 424-9300 (CHEMTREC - U.S.A.)
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:
U.S.A. & Canada: +1 800 / 331-3148
All other countries: +1 651 / 632-6793 (Collect)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version 1.0	Revision Date: 11/03/2023	SDS Number: 50002724	Date of last issue: - Date of first issue: 11/03/2023
----------------	------------------------------	-------------------------	--

Serious eye damage/eye irritation : Category 2A

Skin sensitization : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

Precautionary Statements :

Prevention:
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.

Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Very toxic to aquatic life.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version 1.0 Revision Date: 11/03/2023 SDS Number: 50002724 Date of last issue: -
Date of first issue: 11/03/2023

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
salts and esters of MCPA	salts and esters of MCPA	29450-45-1	$\geq 60 - < 94$
Distillates (petroleum), hydro- treated light; Kerosine — unspecified	Distillates (petroleum), hydro-treated light; Kerosine — unspecified	64742-47-8	$\geq 1 - < 3$

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do NOT induce vomiting.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.
May cause an allergic skin reaction.
- Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.
- Unsuitable extinguishing media : High volume water jet

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version 1.0	Revision Date: 11/03/2023	SDS Number: 50002724	Date of last issue: - Date of first issue: 11/03/2023
----------------	------------------------------	-------------------------	--

- | | |
|--|---|
| Specific hazards during fire fighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : Carbon oxides
Chlorinated compounds
Hydrogen chloride
Fire may produce irritating, corrosive and/or toxic gases. |
| Further information | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
For disposal considerations see section 13. |
| Environmental precautions | : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal. |

SECTION 7. HANDLING AND STORAGE

- | | |
|---|---|
| Advice on protection against fire and explosion | : Normal measures for preventive fire protection. |
| Advice on safe handling | : Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. |

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version 1.0 Revision Date: 11/03/2023 SDS Number: 50002724 Date of last issue: -
Date of first issue: 11/03/2023

- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not store near acids.
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydro-treated light; Kerosine — unspecified	64742-47-8	TWA	200 mg/m ³ (total hydrocarbon vapor)	CA BC OEL
		TWA	200 mg/m ³ (total hydrocarbon vapor)	CA AB OEL
		TWA (Mist)	5 mg/m ³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV (Mist)	5 mg/m ³	CA QC OEL
		STEV (Mist)	10 mg/m ³	CA QC OEL
		TWA	525 mg/m ³	CA ON OEL
		TWA	200 mg/m ³ (total hydrocarbon vapor)	ACGIH

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

Protective measures : Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions. Ensure that eye flushing systems and safety showers are located close to the working place. Wear suitable protective equipment.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : clear, amber

Odor : aromatic, phenol-like

Odor Threshold : No data available

pH : 3.5 - 4.5
Concentration: 1 %
(1% solution in water)

Melting point/freezing point : < -25 °C

Initial boiling point and boiling range : Decomposition at boiling point.

Flash point : > 100 °C

Evaporation rate : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : 0.0057 mmHg (25 °C)

Relative vapor density : No data available

Relative density : No data available

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version 1.0	Revision Date: 11/03/2023	SDS Number: 50002724	Date of last issue: - Date of first issue: 11/03/2023
----------------	------------------------------	-------------------------	--

Density	: 1.0 - 1.08 g/cm3
Bulk density	: No data available
Solubility(ies)	
Water solubility	: emulsifiable
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: 58.4 mm2/s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Avoid extreme temperatures. Heat, flames and sparks.
Incompatible materials	: Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity	: Acute toxicity estimate: 514.49 mg/kg Method: Calculation method
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SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

salts and esters of MCPA:

Acute oral toxicity : LD50 (Rat, female): > 300 - < 2,000 mg/kg
Method: OECD Test Guideline 420

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.05 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPPTS 870.1300
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male): > 2,000 mg/kg
Method: OECD Test Guideline 402

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 15,000 mg/kg
Method: OECD Test Guideline 423
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC0 (Rat, male and female): > 5.28 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403
Remarks: Based on data from similar materials
no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

salts and esters of MCPA:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Assessment : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified due to lack of data.

Product:

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

Components:

salts and esters of MCPA:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified due to lack of data.

Product:

Routes of exposure : Skin contact
Assessment : May cause sensitization by skin contact.
Result : May cause sensitization by skin contact.
Remarks : May cause sensitization of susceptible persons.

Components:

salts and esters of MCPA:

Test Type : Maximization Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitization by skin contact.

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Test Type : Maximization Test
Routes of exposure : Intradermal
Species : Guinea pig
Result : Does not cause skin sensitization.
Remarks : Based on data from similar materials

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

Germ cell mutagenicity

Not classified due to lack of data.

Components:

salts and esters of MCPA:

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Test Type: chromosome aberration assay Species: Mouse (male) Application Route: Intraperitoneal injection Method: OECD Test Guideline 475 Result: negative

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse (male and female) Application Route: Intraperitoneal injection Result: negative Remarks: Based on data from similar materials

Carcinogenicity

Not classified due to lack of data.

Components:

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Species	:	Rat, male
Application Route	:	inhalation (vapor)
Exposure time	:	105 weeks
NOAEC	:	0.138 mg/l
Result	:	positive
Remarks	:	Based on data from similar materials
Carcinogenicity - Assessment	:	The observed tumors do not appear to be relevant for men.

Reproductive toxicity

Not classified due to lack of data.

Components:

salts and esters of MCPA:

Effects on fertility	:	Test Type: Two-generation study
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SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 416
Result: negative

Effects on fetal development : Test Type: Pre-natal
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Effects on fertility : Test Type: Fertility
Species: Rat, male and female
Application Route: inhalation (vapor)
Duration of Single Treatment: 14 Weeks
General Toxicity Parent: NOAEC: 2.2 mg/l
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 500 mg/kg body weight
Teratogenicity: NOAEL: 2,000 mg/kg body weight
Remarks: Developmental effects are a consequence of maternal toxicity.

STOT-single exposure

Not classified due to lack of data.

STOT-repeated exposure

Not classified due to lack of data.

Components:

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

salts and esters of MCPA:

Species : Dog, male and female
NOAEL : < 1 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 409

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Species : Rat

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

NOAEL	:	>= 200 ppm
Application Route	:	inhalation (vapor)
Exposure time	:	13 weeks
Remarks	:	Based on data from similar materials

Aspiration toxicity

Not classified due to lack of data.

Components:

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

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.

Further information

Product:

Remarks	:	No data available
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

salts and esters of MCPA:

Toxicity to fish	:	LC50 (Fish): > 1 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 0.32 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Lemna sp.): 0.1 mg/l Exposure time: 168 h Method: OECD Test Guideline 221 ErC50 (Lemna sp.): 7.13 mg/l Exposure time: 168 h Method: OECD Test Guideline 221
Toxicity to fish (Chronic toxicity)	:	NOEC (Danio rerio (zebra fish)): >= 10 mg/l Exposure time: 30 d Method: OECD Test Guideline 210
Toxicity to daphnia and other	:	NOEC (Daphnia magna (Water flea)): > 100 mg/l

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

aquatic invertebrates (Chronic toxicity)	Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms	: NOEC (Anabaena flos-aquae (cyanobacterium)): 0.32 mg/l Exposure time: 72 h
Toxicity to soil dwelling organisms	: LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h Test Type: semi-static test Remarks: water accommodated fractions (WAF)
Toxicity to daphnia and other aquatic invertebrates	: LL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test Remarks: water accommodated fractions (WAF)
Toxicity to algae/aquatic plants	: NOELR (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOELR (Oncorhynchus mykiss (rainbow trout)): 0.173 mg/l Exposure time: 28 d Method: QSAR Remarks: No toxicity at the limit of solubility. water accommodated fractions (WAF)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOELR (Daphnia magna (Water flea)): 1.22 mg/l Exposure time: 21 d Method: QSAR Remarks: No toxicity at the limit of solubility. water accommodated fractions (WAF)
Toxicity to microorganisms	: EL50 (Tetrahymena pyriformis): > 1,000 mg/l Exposure time: 48 h Method: QSAR

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

Persistence and degradability

Components:

salts and esters of MCPA:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 16 d
Method: OECD Test Guideline 302B

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Biodegradability : Concentration: 50 mg/l
Result: Readily biodegradable.
Biodegradation: 89.9 %
Exposure time: 28 d
Method: OECD Test Guideline 301

Bioaccumulative potential

Components:

salts and esters of MCPA:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 0.4
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: ≥ 3.19 (20 °C)

Distillates (petroleum), hydro- treated light; Kerosine — unspecified:

Bioaccumulation : Bioconcentration factor (BCF): 144.3
Method: QSAR

Mobility in soil

Components:

salts and esters of MCPA:

Distribution among environmental compartments : Koc: 6172 ml/g, log Koc: 3.79
Remarks: Low mobility in soil.

Stability in soil :

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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|------------------------|---|--|
| Waste from residues | : | The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers. |

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

- | | | |
|---------------------------|---|--|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(MCPA-ISOOCTYL TECHNICAL) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| Environmentally hazardous | : | yes |

IATA-DGR

- | | | |
|--|---|--|
| UN/ID No. | : | UN 3082 |
| Proper shipping name | : | Environmentally hazardous substance, liquid, n.o.s.
(MCPA-ISOOCTYL TECHNICAL) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | Miscellaneous |
| Packing instruction (cargo aircraft) | : | 964 |
| Packing instruction (passenger aircraft) | : | 964 |
| Environmentally hazardous | : | yes |

IMDG-Code

- | | | |
|----------------------|---|--|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(MCPA-ISOOCTYL TECHNICAL) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| EmS Code | : | F-A, S-F |
| Marine pollutant | : | yes |

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

Not applicable for product as supplied.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

Domestic regulation

TDG

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MCPA-ISOOCTYL TECHNICAL)
Class	:	9
Packing group	:	III
Labels	:	9
ERG Code	:	171
Marine pollutant	:	yes(MCPA-ISOOCTYL TECHNICAL)

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

NPRI Components	:	Distillates (petroleum), hydro- treated light; Kerosine — unspecified
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The ingredients of this product are reported in the following inventories:

TCSI	:	Not in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. salts and esters of MCPA INERT INGREDIENTS (NULL)
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	11/03/2023	50002724	Date of first issue: 11/03/2023

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for air-borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWA EV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; 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); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; 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; TECI - Thailand Existing Chemicals Inventory; 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; WHMIS - Workplace Hazardous Materials Information System

SAFETY DATA SHEET

according to the Hazardous Products Regulations



MCPA Ester 600

Version	Revision Date:	SDS Number:	Date of last issue: -
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End of Material Safety Data Sheet