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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name : Lumiscend Pro Other means of identification : No data available

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE CANADA COMPANY

#2450, 215 - 2ND STREET S.W.

CALGARY AB, T2P 1M4

CANADA

Customer Information

Number

: 800-667-3852

E-mail address : solutions@corteva.com

Emergency telephone

number

: CANUTEC

1-888-226-8832

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

Seed Treatment

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

GHS label elements

Hazard pictograms

Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.





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Precautionary statements Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Ethaboxam [ISO]	Ethaboxam [ISO]	162650-77-3	5.46
Inpyrfluxam	Inpyrfluxam	1352994-67-2	3.71
metalaxyl (ISO)	metalaxyl (ISO)	57837-19-1	2.98
Balance	Balance	Not Assigned	87.85

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled Move person to fresh air. If person is not breathing, call an

> emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment

advice.

In case of skin contact Take off contaminated clothing. Wash skin with soap and

plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice.

Hold eye open and rinse slowly and gently with water for 15-In case of eye contact

20 minutes.

Remove contact lenses, if present, after the first 5 minutes,

then continue rinsing eye.

Call a poison control center or doctor for treatment advice. Call a poison control center or doctor for treatment advice.

If swallowed Have person sip a glass of water if able to swallow.

DO NOT induce vomiting unless directed to do so by a physi-

cian or poison control center.

Do not give anything by mouth to an unconscious person.





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None known.

Most important symptoms and effects, both acute and

delayed

Notes to physician : Treatment according to symptoms.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Unsuitable extinguishing

media

None known.

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health.

Do not allow run-off from fire fighting to enter drains or water

courses.

Course

Hazardous combustion prod-

ucts

During a fire, smoke may contain the original material in addi-

tion to combustion products of varying composition which may

be toxic and/or irritating.

Combustion products may include and are not limited to:

Carbon oxides

Hydrogen chloride gas

Sulphur oxides

Nitrogen oxides (NOx)

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

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 firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essarv.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Prevent from entering into soil, ditches, sewers, undwater. See

Section 12, Ecological Information.





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Methods and materials for containment and cleaning up

Clean up remaining materials from spill with suitable absorb-

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can

be pumped,

Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

pressurization of the container.

Keep in suitable, closed containers for disposal.

Wipe up with absorbent material (e.g. cloth, fleece).

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

See Section 13, Disposal Considerations, for additional infor-

mation.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety

practice.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take care to prevent spills, waste and minimize release to the

environment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage : Store in a closed container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use local exhaust ventilation, or other engineering controls to

maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient

for most operations.

Local exhaust ventilation may be necessary for some opera-

tions.

Personal protective equipment

Respiratory protection : Local exhaust ventilation may be necessary for some opera-

tions.





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Respiratory protection is required when engineering or administrative control measures are not feasible and inhalation

exposure is reasonably likely.

Hand protection

Remarks : In this case wear chemical-resistant gloves, such as butyl

rubber, natural rubber, neoprene rubber, or nitrile rubber, all

greater than oregual to 14 mils. Viton.

Eye protection : Wear protective eyewear to prevent contact with this sub-

stance.

Skin and body protection : Avoid all skin contact. Selection of specific personal protec-

tive equipment such as long sleeves, safety glasses with side shields, face shield, safety shoes, boots, apron, or full body

suit will depend on the task.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Colour : off-white

Odour : paint

Odour Threshold : No data available

pH : 6.5 - 8.0

Melting point/range : Not applicable

Freezing point not determined

Boiling point/boiling range : not determined

Flash point : Method: closed cup

not determined

Evaporation rate : not determined

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower

flammability limit

not determined

Vapour pressure : not determined

Relative vapour density : not determined

Density : 1.063 g/cm3 (20 °C)

Solubility(ies)

Water solubility : miscible

Auto-ignition temperature : not determined





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Viscosity

Viscosity, dynamic : 130 cP (20 °C)

Explosive properties : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.

Stable under normal conditions.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

Conditions to avoid : Incompatible materials :

Hazardous decomposition

products

None known. None.

Decomposition products depend upon temperature, air supply

and the presence of other materials.

Decomposition products can include and are not limited to:

Carbon oxides

Hydrogen chloride gas

Sulphur oxides

Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): 1,750 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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

Components:

metalaxyl (ISO):

Acute oral toxicity : LD50 (Rat): 669 mg/kg

Acute inhalation toxicity : Remarks: Brief exposure to dust is not likely to cause adverse

effects.

Dust may cause irritation to upper respiratory tract (nose and

throat).

LC50 (Rat): > 3.6 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity



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Acute dermal toxicity : LD50 (Rabbit): > 6,000 mg/kg

Skin corrosion/irritation

Product:

Species : Rabbit

Components:

metalaxyl (ISO):

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit

Components:

metalaxyl (ISO):

Result : No eye irritation

Respiratory or skin sensitisation

Product:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Components:

metalaxyl (ISO):

Assessment : Does not cause skin sensitisation.

Remarks : Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

Germ cell mutagenicity

Components:

Ethaboxam [ISO]:

Germ cell mutagenicity - : In vitro tests did not show genotoxic effects

Assessment

metalaxyl (ISO):

Germ cell mutagenicity -

: In vitro genetic toxicity studies were negative., Animal genetic

Assessment toxicity studies were negative.





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Carcinogenicity

Components:

Ethaboxam [ISO]:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

metalaxyl (ISO):

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

Reproductive toxicity

Components:

Ethaboxam [ISO]:Reproductive toxicity - As-

sessment

: Development effects were not observed in laboratory animals., In animal studies, has been shown to interfere with

fertility.

Did not cause birth defects in laboratory animals.

metalaxyl (ISO):

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction., In ani-

mal studies, did not interfere with fertility.

Did not cause birth defects in laboratory animals.

STOT - single exposure

Components:

Ethaboxam [ISO]:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

metalaxyl (ISO):

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Repeated dose toxicity

Components:

Ethaboxam [ISO]:

Remarks : No relevant data found.

metalaxyl (ISO):

Remarks : Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.





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Aspiration toxicity

Components:

Ethaboxam [ISO]:

Based on physical properties, not likely to be an aspiration hazard.

metalaxyl (ISO):

Based on physical properties, not likely to be an aspiration hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethaboxam [ISO]:

Toxicity to fish : LC50 (Fathead minnow): > 4.6 mg/l

Exposure time: 96 h

LC50 (Rainbow trout (Oncorhynchus mykiss)): 2.3 mg/l

Exposure time: 96 h

LC50 (Sheepshead minnow (Cyprinodon variegatus)): > 3.1

mg/l

Exposure time: 96 h

LC50 (Fish): 0.42 mg/l Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna): 0.35 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (green algae): 3.6 mg/l

Exposure time: 96 h

EC50 (algae): 0.38 mg/l Exposure time: 96 h

M-Factor (Acute aquatic tox-

icity)

M-Factor (Chronic aquatic

toxicity)

Toxicity to terrestrial organ-

isms

1

1

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2,000

mg/kg

oral LD50 (Poephila guttata (zebra finch)): > 2,000 mg/kg

dietary LC50 (Colinus virginianus (Bobwhite quail)): 5,000

ppm

dietary LC50 (Anas platyrhynchos (Mallard duck)): 5,620 ppm





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Inpyrfluxam:

Toxicity to fish : LC50 (Rainbow trout (Oncorhynchus mykiss)): 0.031 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.1 mg/l

Exposure time: 48 h

Toxicity to algae/aguatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 23 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

M-Factor (Chronic aquatic

toxicity)

10 10

metalaxyl (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): > 28 mg/l

Exposure time: 48 h

EC50 (eastern oyster (Crassostrea virginica)): 4.6 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Algae): 33 mg/l

Exposure time: 120 h

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

Remarks: Material is slightly toxic to birds on an acute basis (LD50 between 501 and 2000 mg/kg)., Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

oral LD50 (Coturnix japonica (Japanese quail)): 923 mg/kg

bodyweight.

oral LD50 (Anas platyrhynchos (Mallard duck)): 1466 mg/kg

bodyweight.

dietary LC50 (Anas platyrhynchos (Mallard duck)): > 10000

mg/kg diet.

oral LD50 (Apis mellifera (bees)): 269.3 µg/bee

contact LD50 (Apis mellifera (bees)): > 200 µg/bee

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.





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Persistence and degradability

Components:

metalaxyl (ISO):

Biodegradability : Result: Not readily biodegradable.

Remarks: Degradation is expected in the soil environment

within days to weeks.

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biode-

gradable under environmental conditions.

Bioaccumulative potential

Components:

metalaxyl (ISO):

Partition coefficient: n-

attition coemicient. II-

: log Pow: 1.75 (25 °C)

octanol/water

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

Balance:

Partition coefficient: n-

octanol/water

Remarks: No relevant data found.

Mobility in soil

Components:

metalaxyl (ISO):

Distribution among environ-

mental compartments

Koc: 29.6 - 283.8

Remarks: Potential for mobility in soil is very high (Koc be-

tween 0 and 50).

Stability in soil

Balance:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

Other adverse effects

Components:

metalaxyl (ISO):

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Balance:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).





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Ozone-Depletion Potential Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues If wastes and/or containers cannot be disposed of according

to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regu-

lations.

If the material as supplied becomes a waste, follow all appli-

cable regional, national and local laws.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Ethaboxam, Inpyrfluxam)

Class 9 Packing group Ш Labels 9

IATA-DGR

UN/ID No. UN 3082

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

(Ethaboxam, Inpyrfluxam)

Class 9 Packing group Ш

Miscellaneous Labels 964

Packing instruction (cargo

aircraft)

Packing instruction (passen-

ger aircraft)

964

IMDG-Code

UN number UN 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, Proper shipping name

N.O.S.

(Ethaboxam, Inpyrfluxam)

Class 9 Ш Packing group Labels 9 **EmS Code** F-A, S-F

Marine pollutant yes

Remarks Stowage category A





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

Not applicable for product as supplied.

National Regulations

TDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Ethaboxam, Inpyrfluxam)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171

Marine pollutant : yes(Ethaboxam, Inpyrfluxam)

Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

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

The components of this product are reported in the following inventories:

DSL : This product contains components that are not listed on the

Canadian DSL nor NDSL.

Pest Control Products Act (PCPA) Registration Number : 34421

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

PCPA Label Hazard Communications:

Read the label and booklet before using. Keep out of reach of children.

CAUTION POISON





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This product is toxic to: Aquatic organisms Birds Small wild mammals Non-target terrestrial plants

SECTION 16. OTHER INFORMATION

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of other abbreviations

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 Svstem; 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

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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.

CA / 6N