

Surpass® EC

Version **Revision Date:** SDS Number: Date of last issue: -

09/15/2022 800080004498 Date of first issue: 09/15/2022 1.0

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 the United States and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Surpass® EC Product name

Manufacturer or supplier's details

COMPANY IDENTIFICATION

CORTEVA AGRISCIENCE LLC Manufacturer/importer

9330 ZIONSVILLE RD

INDIANAPOLIS, IN, 46268-1053

UNITED STATES

Customer Information

Number

: 800-992-5994

E-mail address : customerinformation@corteva.com

Emergency telephone INFOTRAC (CONTRACT 84224).

800-992-5994 or 317-337-6009

Recommended use of the chemical and restrictions on use

Recommended use : End use herbicide product

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) Category 4

Skin irritation Category 2

Skin sensitization Category 1

Carcinogenicity Category 2

Reproductive toxicity Category 2

Specific target organ toxicity : Category 3 (Respiratory system)

- single exposure



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GHS label elements

Hazard pictograms





Signal Word Warning

Hazard Statements H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

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 must not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

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

doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

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

Other hazards

None known.





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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
acetochlor (ISO)	34256-82-1	70.87
Dichlormid	37764-25-3	11.79
Anionic and nonionic surfactant blend	Not Assigned	>= 3 - < 10
Distillates (petroleum), hydro- treated	64742-47-8	>= 3 - < 10
light; Kerosine — unspecified		
Solvent naphtha (petroleum), heavy	64742-94-5	>= 3 - < 10
arom.; Kerosine — unspecified		
toluene	108-88-3	>= 0.1 - < 0.3
naphthalene	91-20-3	>= 0.1 - < 0.3

Actual concentration 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.

Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of

properly.

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

20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control

center or doctor for treatment advice.

Suitable emergency eye wash facility should be available in

work area.

None known.

If swallowed : Call a poison control center or doctor immediately for treat-

ment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison

control center or doctor.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delaved

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing (chemical re-

sistant gloves, splash protection).

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : Skin contact may aggravate preexisting dermatitis.

No specific antidote.

Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient.

Have the Safety Data Sheet, and if available, the product con-





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tainer or label with you when calling a poison control center or

doctor, or going for treatment.

SECTION 5. FIRE-FIGHTING 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.

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

Nitrogen oxides (NOx) Hydrogen chloride gas

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 fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Ensure adequate ventilation.

Use personal protective equipment.

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, underwater.

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 absorbant

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

Local/Total ventilation Advice on safe handling Use with local exhaust ventilation.

Avoid formation of aerosol.

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.

Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapors/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety

practice.

Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the ap-

plication area.

Do not get on skin or clothing.

Do not breathe vapors or spray mist.

Do not swallow.

Avoid contact with skin and eyes.

Avoid contact with eyes. Keep container tightly closed.

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 labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

Packaging material : Unsuitable material: None known.



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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 — un- specified	64742-47-8	TWA	100 ppm	Dow IHG
		STEL	125 ppm	Dow IHG
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	OSHA Z-1
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	100 mg/m3	Corteva OEL
		STEL	300 mg/m3	Corteva OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
naphthalene	91-20-3	TWA	10 ppm	Dow IHG
		STEL	15 ppm	Dow IHG
		TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm 50 mg/m3	OSHA P0
		STEL	15 ppm 75 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible	0.03 mg/l	ACGIH BEI



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		after exposure ceases)		
o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g Creatinine	ACGIH BEI

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 : Respiratory protection should be worn when there is a poten-

tial to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator.

Hand protection

Remarks : Use gloves chemically resistant to this material. Examples of

preferred glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materi-

als include: Natural rubber ("latex"). Neoprene. Ni-

trile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reac-

tions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection : Use chemical goggles.

Skin and body protection : Use protective clothing chemically resistant to this material.

Selection of specific items such as face shield, boots, apron,

or full body suit will depend on the task.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Color : Purple

Odor : Aromatic



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Odor Threshold : No data available

pH : 6

Method: Calculated.

Melting point/range : Not applicable

Freezing point No data available

Boiling point/boiling range : No data available

Flash point : $> 199 \, ^{\circ}\text{F} / > 93 \, ^{\circ}\text{C}$

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : 9.199 (68 °F / 20 °C)

Method: Calculated.

Relative density : 1.1086 (77 °F / 25 °C)

Density : 1.1086 g/cm3 (77 °F / 25 °C)

Method: Calculated.

Solubility(ies)

Water solubility : emulsifies in water

Autoignition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available





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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. May form explosive dust-air mixture.

Conditions to avoid : None known.

Incompatible materials

Hazardous decomposition

products

Decomposition products depend upon temperature, air supply

and the presence of other materials.

Decomposition products can include and are not limited to:

Carbon oxides

None.

Nitrogen oxides (NOx) Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): 1,415 mg/kg

Remarks: For similar material(s):

Acute inhalation toxicity : LC50 (Rat): > 1.55 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: For similar material(s): Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rat): > 2,240 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: For similar material(s):

Components:

acetochlor (ISO):

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Remarks: Signs and symptoms of excessive exposure may

include: Tremors. Convulsions.

Acute inhalation toxicity : Remarks: Prolonged excessive exposure to mist may cause

serious adverse effects, even death.

Mist may cause irritation of upper respiratory tract (nose and



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throat).

LC50 (Rat): 3.99 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Dichlormid:

Acute oral toxicity : LD50 (Rat, female): 2,146 mg/kg

LD50 (Rat, male): 2,816 mg/kg

Acute inhalation toxicity : Remarks: Prolonged excessive exposure to mist may cause

adverse effects.

Vapor may cause irritation of the upper respiratory tract (nose

and throat).

Mist may cause irritation of upper respiratory tract (nose and

throat).

LC50 (Rat, male and female): > 5.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 4,640 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Anionic and nonionic surfactant blend:

Acute oral toxicity : Remarks: Low toxicity if swallowed.

Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however,

swallowing larger amounts may cause injury.

LD50 (Rat): > 2,000 mg/kg Method: Acute toxicity estimate

Acute dermal toxicity : Remarks: Prolonged skin contact is unlikely to result in ab-

sorption of harmful amounts.

LD50 (Rabbit): > 5,000 mg/kg Method: Acute toxicity estimate

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

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

Method: Estimated.

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 8 h



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Test atmosphere: vapor

Remarks: For similar material(s):

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

Remarks: For similar material(s):

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

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

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.68 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

toluene:

Acute oral toxicity : LD50 (Rat): 5,580 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 25.7 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Remarks: Symptoms may include headache, dizziness and drowsiness, progressing to incoordination and unconscious-

ness.

Alcohol consumption and exertion may increase the adverse

effects of toluene.

LC50 (Rat, female): 30 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): 12,267 mg/kg

naphthalene:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Lethal Dose (Humans): 5 - 15 grams

Method: Estimated.

Remarks: Excessive exposure may cause hemolysis, thereby

impairing the blood's ability to transport oxygen.

Ingestion of naphthalene by humans has caused hemolytic

anemia.

Toxicity from swallowing may be greater in humans than in

animals.

In humans, symptoms may include:

Confusion.



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Lethargy.

Muscle spasms or twitches.

Convulsions.

Coma.

Acute inhalation toxicity : Remarks: Excessive exposure may cause irritation to upper

respiratory tract (nose and throat).

Excessive exposure may cause lung injury.

Signs and symptoms of excessive exposure may include:

Headache. Confusion. Sweating.

Nausea and/or vomiting.

LC50 (Rat): > 0.41 mg/l Exposure time: 4 h Test atmosphere: vapor

Symptoms: The LC50 value is greater than the Maximum

Attainable Concentration.

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat): > 2,500 mg/kg

Remarks: Human case reports suggest Naphthalene may be absorbed through the skin in toxic amounts, especially in chil-

dren.

LD50 (Rabbit): > 2,500 mg/kg

Skin corrosion/irritation

Product:

Species : Rabbit Result : Skin irritation

Components:

acetochlor (ISO):

Result : Skin irritation

Dichlormid:

Result : Skin irritation

Anionic and nonionic surfactant blend:

Result : Skin irritation

toluene:

Species : Rabbit Result : Skin irritation



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Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : No eye irritation

Components:

Anionic and nonionic surfactant blend:

Result : Eye irritation

toluene:

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitization

Components:

acetochlor (ISO):

Assessment : May cause sensitization by skin contact.

Remarks : Has caused allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:

No relevant data found.

Dichlormid:

Remarks : Skin contact may cause an allergic skin reaction in a small

proportion of individuals.

Remarks : For respiratory sensitization:

No relevant data found.

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

Remarks : For similar material(s):

Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Remarks : Did not cause allergic skin reactions when tested in humans.

Remarks : For respiratory sensitization:

No relevant data found.

toluene:

Species : Guinea pig

Assessment : Does not cause skin sensitization.



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naphthalene:

Assessment : Does not cause skin sensitization.

Remarks : For skin sensitization:

Skin contact may cause an allergic skin reaction in a small

proportion of individuals.

Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

Germ cell mutagenicity

Components:

acetochlor (ISO):

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were negative in some cases and positive in other cases., Animal genetic toxicity studies

were predominantly negative.

Dichlormid:

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

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

Germ cell mutagenicity -

Assessment

For similar material(s):, In vitro genetic toxicity studies were

negative., Animal genetic toxicity studies were negative.

toluene:

Germ cell mutagenicity -

Assessment

The majority and most reliable of the many genetic toxicity

studies on toluene, both in vitro and in animals, indicate that it

is not genetically toxic.

naphthalene:

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were negative in some cases

and positive in other cases.

Carcinogenicity

Components:

acetochlor (ISO):

Carcinogenicity - Assess-

ment

: Has caused cancer in laboratory animals., Tumors were ob-

served only at levels which produced significant toxicity, thus

exceeding the maximum tolerated dose.

Dichlormid:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

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

Carcinogenicity - Assess-

ment

: For similar material(s):, Did not cause cancer in laboratory

animals.

toluene:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

naphthalene:

Carcinogenicity - Assess-

ment

Limited evidence of carcinogenicity in animal studies

Has caused cancer in some laboratory animals., In humans, there is limited evidence of cancer in workers involved in naphthalene production. Limited oral studies in rats were neg-

ative.

IARC Group 2B: Possibly carcinogenic to humans

naphthalene 91-20-3

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP Reasonably anticipated to be a human carcinogen

naphthalene 91-20-3

Reproductive toxicity

Components:

acetochlor (ISO):

Reproductive toxicity - As-

sessment

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to

the parent animals.

Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory

animals.

Dichlormid:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory

animals.

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

Reproductive toxicity - As-

sessment

: For similar material(s):, In animal studies, did not interfere with

reproduction.

For similar material(s):, Did not cause birth defects or any

other fetal effects in laboratory animals.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Reproductive toxicity - As-

In animal studies, did not interfere with reproduction.

sessment



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toluene:

Reproductive toxicity - As-

sessment

In animal studies, has been shown to interfere with reproduc-

tion., Some evidence of adverse effects on development,

based on animal experiments.

In laboratory animals, toluene has been toxic to the fetus at doses toxic to the mother; it has caused birth defects in mice

when administered orally, but not by inhalation.

naphthalene:

Reproductive toxicity - As-

sessment

Available data are inadequate to determine effects on repro-

duction.

Did not cause birth defects in laboratory animals.

STOT-single exposure

Components:

acetochlor (ISO):

Assessment : May cause respiratory irritation.

Dichlormid:

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

an STOT-SE toxicant.

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

an STOT-SE toxicant.

Anionic and nonionic surfactant blend:

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

an STOT-SE toxicant.

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

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

an STOT-SE toxicant.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Routes of exposure : Inhalation

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

toluene:

Routes of exposure : Inhalation

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

naphthalene:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.



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STOT-repeated exposure

Components:

toluene:

Routes of exposure : Inhalation
Target Organs : Nervous system

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Repeated dose toxicity

Components:

acetochlor (ISO):

Remarks : In animals, effects have been reported on the following or-

gans: Kidney. Liver. Blood. Testes.

Central nervous system.

Dichlormid:

Remarks : In animals, effects have been reported on the following or-

gans: Liver. Muscles. Nasal tissue.

Central nervous system.

Anionic and nonionic surfactant blend:

Remarks : No relevant data found.

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

Remarks : In animals, effects have been reported on the following or-

gans: Kidney.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Remarks : In animals, effects have been reported on the following or-

gans: Lung.

Gastrointestinal tract.

Thyroid. Urinary tract.

Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use. Cataracts and other eye effects have been reported in humans repeatedly exposed to naphthalene vapor or dust.



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toluene:

Remarks : In animals, effects have been reported on the following or-

gans:

central nervous system (CNS) effects

Excessive exposure may cause neurologic signs and symp-

toms.

Toluene has caused hearing loss in laboratory animals upon

exposure to high concentrations.

Intentional misuse by deliberately inhaling toluene may cause nervous system damage, hearing loss, liver and kidney effects

and death.

naphthalene:

Remarks : Observations in animals include:

Respiratory effects.

Excessive exposure may cause hemolysis, thereby impairing

the blood's ability to transport oxygen.

Cataracts and other eye effects have been reported in humans repeatedly exposed to naphthalene vapor or dust. Ingestion of naphthalene by humans has caused hemolytic

anemia.

Aspiration toxicity

Components:

acetochlor (ISO):

Based on available information, aspiration hazard could not be determined.

Dichlormid:

Based on available information, aspiration hazard could not be determined.

Anionic and nonionic surfactant blend:

May be harmful if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

May be fatal if swallowed and enters airways.

toluene:

May be fatal if swallowed and enters airways.

naphthalene:

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





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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

acetochlor (ISO):

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0.36 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 8.6 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202 or Equivalent

EC50 (eastern oyster (Crassostrea virginica)): 4.2 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

EyC50 (Pseudokirchneriella subcapitata (green algae)):

0.00027 mg/l

End point: Growth inhibition (cell density reduction)

Exposure time: 96 h

Method: OECD Test Guideline 201 or Equivalent

EyC50 (Lemna minor (duckweed)): 0.0027 mg/l End point: Growth inhibition (cell density reduction)

Exposure time: 7 d Method: OECD 221.

M-Factor (Acute aquatic tox-

1,000

Toxicity to fish (Chronic tox-

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.13 mg/l

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.0221 mg/l

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

100

Toxicity to microorganisms

EC50 (activated sludge): > 1,000 mg/l

Exposure time: 3 h

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): 105.5 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 (Colinus virginianus (Bobwhite quail)): 928 mg/kg

bodyweight.

dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5620



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mg/kg diet.

Exposure time: 5 d

dietary LC50 (Anas platyrhynchos (Mallard duck)): > 5620

mg/kg diet.

Exposure time: 5 d

oral LD50 (Apis mellifera (bees)): > 100 micrograms/bee

Exposure time: 48 h

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

Exposure time: 48 h

Dichlormid:

Toxicity to fish : Remarks: Material is slightly toxic to aquatic organisms on an

acute basis (LC50/EC50 between 10 and 100 mg/L in the

most sensitive species tested).

LC50 (Oncorhynchus mykiss (rainbow trout)): 141 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 161 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 80

mg/l

Exposure time: 72 h

Toxicity to microorganisms : EC50 (Bacteria): 1,180 mg/l

Exposure time: 6 h

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): 391 mg/kg

Exposure time: 14 d

GLP: yes

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 (Colinus virginianus (Bobwhite quail)): 1545 mg/kg

bodyweight. GLP: yes

dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5200

mg/kg diet.

Exposure time: 5 d

oral LD50 (Apis mellifera (bees)): > 22.7 μg/bee

Exposure time: 48 d

contact LD50 (Apis mellifera (bees)): > 33.3 μg/bee

Exposure time: 48 h



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Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Anionic and nonionic surfactant blend:

Toxicity to fish : Remarks: Material is slightly toxic to aquatic organisms on an

acute basis (LC50/EC50 between 10 and 100 mg/L in the

most sensitive species tested).

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

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

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 400 mg/l

Exposure time: 48 h

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Toxicity to fish : LC50 (Freshwater fish): 10 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3 - 10 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

ErC50 (Marine algae (Skeletonema costatum)): 2.5 mg/l

End point: Cell Density Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

1

toluene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.8 mg/l

Exposure time: 96 h Test Type: semi-static test

LC50 (Fish): 5.5 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 7 mg/l

Exposure time: 24 h Test Type: static test

Method: OECD Test Guideline 202

LC50 (water flea Ceriodaphnia dubia): 3.78 mg/l

Exposure time: 48 h Test Type: semi-static test

Toxicity to algae/aquatic

plants

EbC50 (Pseudokirchneriella subcapitata (green algae)): 12.5

mg/l



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End point: Biomass Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Fish): 1.4 mg/l End point: growth

Exposure time: 40 d

Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC (Ceriodaphnia dubia (water flea)): 0.74 mg/l

End point: number of offspring

Exposure time: 7 d

NOEC (Daphnia magna (Water flea)): 2 mg/l

End point: number of offspring

Exposure time: 21 d

Toxicity to microorganisms : IC50 (Bacteria): 29 mg/l

Exposure time: 16 h

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): 150 - 280 mg/kg

naphthalene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.11 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.6 - 24.1 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae/aquatic

plants

ErC50 (Skeletonema costatum (marine diatom)): 0.4 mg/l

Exposure time: 72 h

Test Type: Growth rate inhibition

M-Factor (Acute aquatic tox-

icity)

Toxicity to fish (Chronic tox-

icity)

NOEC (Other): 0.37 mg/l

End point: mortality Exposure time: 40 d Test Type: flow-through

M-Factor (Chronic aquatic

toxicity)

. 1

1

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

acetochlor (ISO):

Stability in water : Test Type: Hydrolysis

Method: Stable



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Test Type: Hydrolysis

Method: Stable

Test Type: Hydrolysis

Method: Stable

Photodegradation : Rate constant: 5.51826E-11 cm3/s

Method: Estimated.

Dichlormid:

Stability in water : Test Type: Hydrolysis

Method: Stable

Test Type: Hydrolysis

Method: Stable

Test Type: Hydrolysis

Method: Stable

Photodegradation : Test Type: Half-life (direct photolysis)

Method: Measured

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Concentration: 1,500,000 1/cm3 Rate constant: 7.55E-11 cm3/s

Method: Estimated.

Anionic and nonionic surfactant blend:

Biodegradability : Remarks: Material is expected to be readily biodegradable.

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

Biodegradability : Result: Not biodegradable

Remarks: Material is expected to biodegrade very slowly (in

the environment). Fails to pass OECD/EEC tests for ready

biodegradability.

aerobic

Biodegradation: 4 - 12 % Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Remarks: 10-day Window: Fail

ThOD : 3.48 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Rate constant: 1.394E-11 cm3/s

Method: Estimated.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:



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Biodegradability : Result: Not biodegradable

Remarks: Biodegradation may occur under aerobic conditions

(in the presence of oxygen).

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.

Biodegradation: 30 - 41 % Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Remarks: 10-day Window: Fail

toluene:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 14 d

Method: OECD Test Guideline 301C or Equivalent

Remarks: 10-day Window: Not applicable

ThOD : 3.13 kg/kg

Method: Calculated.

Photodegradation : Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Concentration: 1,500,000 1/cm3 Rate constant: 5.23E-12 cm3/s

Method: Estimated.

naphthalene:

Biodegradability : Remarks: Biodegradation under aerobic static laboratory con-

ditions is high (BOD20 or BOD28/ThOD > 40%).

Biochemical Oxygen De-

mand (BOD)

57.000 %

Incubation time: 5 d

71.000 %

Incubation time: 10 d

71.000 %

Incubation time: 20 d

ThOD : 3.00 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Concentration: 1,500,000 1/cm3 Rate constant: 2.16E-11 cm3/s

Method: Estimated.



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Bioaccumulative potential

Components:

acetochlor (ISO):

Bioaccumulation Bioconcentration factor (BCF): 20

Partition coefficient: n-

octanol/water

log Pow: 4.14 Method: Measured

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

Pow < 3).

Dichlormid:

Partition coefficient: n-

log Pow: 1.839

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

Pow < 3).

Anionic and nonionic surfactant blend:

Partition coefficient: n-

octanol/water

: Remarks: No relevant data found.

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

Bioconcentration factor (BCF): 310

Method: Estimated.

Partition coefficient: n-

octanol/water

log Pow: 3.3 - 6

Method: estimated

Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Bioaccumulation Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 61 - 115

Method: Estimated.

Partition coefficient: n-

log Pow: 2.9 - 6.1

octanol/water

Method: OECD Test Guideline 117 or Equivalent

Remarks: Bioconcentration potential is high (BCF > 3000 or

Log Pow between 5 and 7).

toluene:

Bioaccumulation Species: Fish

Bioconcentration factor (BCF): 13.2 - 90

Method: Measured

Partition coefficient: n-

octanol/water

log Pow: 2.73

Method: Measured

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

Pow < 3).



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naphthalene:

Bioaccumulation Species: Fish

Bioconcentration factor (BCF): 40 - 300

Exposure time: 28 d Method: Measured

Partition coefficient: n-

octanol/water

log Pow: 3.3

Method: Measured

Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Mobility in soil

Components:

acetochlor (ISO):

Distribution among environ-

Koc: 156

mental compartments Method: Estimated.

Remarks: Potential for mobility in soil is medium (Koc between

150 and 500).

Dichlormid:

Distribution among environ-

mental compartments

Koc: 36 - 49

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

tween 0 and 50).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an im-

portant fate process.

Anionic and nonionic surfactant blend:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

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

Distribution among environ-

mental compartments

Koc: > 5000

Method: Estimated.

Remarks: Expected to be relatively immobile in soil (Koc >

5000).

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Distribution among environ-

mental compartments

: Remarks: No relevant data found.

toluene:

Distribution among environ-

mental compartments

Method: Estimated.

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

tween 0 and 50).

Koc: 37 - 178

naphthalene:



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Distribution among environ-

mental compartments

Koc: 240 - 1300 Method: Measured

Remarks: Potential for mobility in soil is medium (Koc between

150 and 500).

Other adverse effects

Components:

acetochlor (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.

Dichlormid:

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.

Anionic and nonionic surfactant blend:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

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

of substances that deplete the ozone layer.

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

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

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

of substances that deplete the ozone layer.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Results of PBT and vPvB

assessment

: This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

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

of substances that deplete the ozone layer.

toluene:

Results of PBT and vPvB

assessment

: This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).



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

of substances that deplete the ozone layer.

naphthalene:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

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. (Acetochlor)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082

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

(Acetochlor)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 964

aircraft)

Packing instruction (passen-

ger aircraft)

964



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IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Acetochlor)

Class : 9
Packing group : III
Labels : 9

EmS Code : F-A, S-F Marine pollutant : yes

Remarks : Stowage category A

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

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 5L 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.

THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS THE REPORTABLE QUANTITY.

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

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Respiratory or skin sensitization

Carcinogenicity
Reproductive toxicity
Skin corrosion or irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

naphthalene 91-20-3 >= 0.1 - < 1 %

US State Regulations

Pennsylvania Right To Know

Distillates (petroleum), hydro- treated light; Kerosine — un- 64742-47-8



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specified

Solvent naphtha (petroleum), heavy arom.; Kerosine — un- 64742-94-5

specified

California Prop. 65

WARNING: This product can expose you to chemicals including acetochlor (ISO), Distillates (petroleum), hydro-treated light; Kerosine — unspecified, naphthalene, which is/are known to the State of California to cause cancer, and

toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule: Dichlormid 37764-25-3

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Dichlormid 37764-25-3

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 62719-367

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

WARNING

Causes skin and eye irritation

Harmful if swallowed, inhaled or absorbed through skin.

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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
Corteva OEL : Corteva Occupational Exposure Limit
Dow IHG : Dow Industrial Hygiene Guideline

OSHA PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-2 : USA. Occupational Exposure Limits (OSHA) - Table Z-2



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ACGIH / TWA 8-hour, time-weighted average Corteva OEL / STEL Short term exposure limit Corteva OEL / TWA Time weighted average Dow IHG / STEL Short term exposure limit Time weighted average Dow IHG / TWA 8-hour time weighted average OSHA P0 / TWA OSHA P0 / STEL Short-term exposure limit OSHA Z-1 / TWA 8-hour time weighted average 8-hour time weighted average OSHA Z-2 / TWA OSHA Z-2 / CEIL Acceptable ceiling concentration

OSHA Z-2 / Peak : Acceptable maximum peak above the acceptable ceiling con-

centration for an 8-hr shift

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System: 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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Surpass® EC

Version Revision Date: SDS Number: Date of last issue: -

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