according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version

1.0

Revision Date: 02/05/2024

SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

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

Product name

: Dimension® 2EW

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer

CORTEVA AGRISCIENCE LLC

9330 ZIONSVILLE RD

INDIANAPOLIS, IN, 46268-1053

UNITED STATES

Customer Information

Number

E-mail address

: 1-800-258-3033

: customerinformation@corteva.com

Emergency telephone

: INFOTRAC (CONTRACT 84224)

+1 800-992-5994 or +1 317-337-6009

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)

Flammable liquids

Category 4

Skin irritation

: Category 2

Skin sensitization

: Sub-category 1B

GHS label elements

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version

Revision Date:

1.0 02/05/2024

SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

Hazard pictograms



Signal Word

Warning

Hazard Statements

H227 Combustible liquid. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Precautionary Statements

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alco-

hol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

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	CAS-No.	Concentration (% w/w)
Dithiopyr	97886-45-8	24
Anionic and nonionic surfactant blend	Not Assigned	>= 60 - < 70
cyclohexanone	108-94-1	>= 10 - < 20

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0	on	Revision Date: 02/05/2024		OS Number: 0080005557	Date of last issue: - Date of first issue: 02/05/2024
ľ	f inhale	d	;	emergency responsation; if by mouth	esh air. If person is not breathing, call an nder or ambulance, then give artificial respi- to mouth use rescuer protection (pocket poison control center or doctor for treatment
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 cen or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly. Suitable emergency safety shower facility should be available in work area.		
Ji	n case	of eye contact	:	20 minutes. Remo minutes, then con center or doctor for	nd rinse slowly and gently with water for 15- ove contact lenses, if present, after the first 5 tinue rinsing eyes. Call a poison control or treatment advice. cy eye wash facility should be available in
If	f swallo	wed	:	No emergency me	edical treatment necessary.
а		portant symptoms ects, both acute and	:	None known.	
F	Protection	on of first-aiders	•	and use the reconsistant gloves, spl	osure exists refer to Section 8 for specific
Notes to physician		:	No specific antidote. Treatment of exposure should be directed at the control o symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product tainer or label with you when calling a poison control cent doctor, or going for treatment.		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Unsuitable extinguishing

media

Do not use direct water stream.

High volume water jet

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health.

Vapors may form explosive mixtures with air.

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

courses.

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date:

SDS Number: 800080005557 02/05/2024

Date of last issue: -

Date of first issue: 02/05/2024

Flash back possible over considerable distance.

Specific extinguishing meth-

ods

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

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

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

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.

Further information

Use water spray to cool fire exposed containers and fire af-

fected zone until fire is out and danger of reignition has

passed.

Do not use a solid water stream as it may scatter and spread

fire.

Use a water spray to cool fully closed containers.

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, protec- : tive 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.

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-

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date: 02/05/2024

SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

pressurization of the container.

Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece).

Non-sparking tools should be used.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

Suppress (knock down) gases/vapors/mists with a water spray

iet.

See Section 13, Disposal Considerations, for additional infor-

mation.

SECTION 7. HANDLING AND STORAGE

Local/Total ventilation

: Use with local exhaust ventilation.

Advice on safe handling

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. Avoid inhalation of vapor or mist.

Do not swallow.

Avoid contact with skin and eyes.

Avoid contact with eyes. Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges. 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.

No smoking.

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

Do not store near acids.

Strong oxidizing agents

Explosives

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date:

SDS Number:

Date of last issue: -

02/05/2024 800080005557

Date of first issue: 02/05/2024

Gases

Packaging material

Unsuitable material: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Dithiopyr	97886-45-8	TWA	0.25 mg/m3	Dow IHG
cyclohexanone	108-94-1	TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
		TWA	50 ppm 200 mg/m3	OSHA Z-1
		TWA	25 ppm 100 mg/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra-tion	Basis
cyclohexanone	108-94-1	1,2- Cyclohex- anediol	Urine	End of shift at end of work- week	80 mg/l	ACGIH BEI
		Cyclohexa- nol	Urine	End of shift (As soon as possible after exposure ceases)	8 mg/l	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 operations.

Personal protective equipment

Respiratory protection

Respiratory protection should be worn when there is a potential 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. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an ap-

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date:

02/05/2024

SDS Number: 800080005557 Date of last issue: -

Date of first issue: 02/05/2024

proved air-purifying respirator.

Hand protection

Remarks

Use gloves, chemically resistant to this material, at all times. Examples of preferred glove barrier materials include: Butyl rubber. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Nitrile/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 reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection

Use chemical goggles.

Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when

there is any likelihood of splashes.

Skin and body protection

Use chemical protective clothing resistant to this material,

when there is any possibility of skin contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Liquid.

Color

Tan

Odor

Mild

Odor Threshold

No data available

pH

4.7 (70.2 °F / 21.2 °C) Method: CIPAC MT 75.3

Melting point/range

Not applicable

Freezing point

No data available

Boiling point/boiling range

No data available

Flash point

153.5 °F / 67.5 °C

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date:

02/05/2024

SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

Method: CIPAC MT 12.3, closed cup

Evaporation rate

No data available

Flammability (solid, gas)

Not applicable to liquids

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

No data available

Relative density

: No data available

Density

0.989 g/cm3

Method: EC Method A3

Solubility(ies)

Water solubility

: emulsifiable

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature

No data available

Viscosity

Viscosity, dynamic

: 34.3 mPa.s (68 °F / 20 °C)

15.7 mPa.s (104 °F / 40 °C)

Viscosity, kinematic

No data available

Explosive properties

: No

Oxidizing properties

No significant increase (>5C) in temperature.

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.

Vapors may form explosive mixture with air.

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0 Revision Date: 02/05/2024

SDS Number: 800080005557

Date of last issue: -

300080005557

Date of first issue: 02/05/2024

May form explosive dust-air mixture.

Conditions to avoid

: Heat, flames and sparks.

Incompatible materials

: Strong acids

Strong bases

Strong oxidizing agents

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

Nitrogen oxides (NOx) Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity

: LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 425 Remarks: For similar material(s):

Acute inhalation toxicity

LC50 (Rat, male and female): > 5.41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

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

tion toxicity

Remarks: For similar material(s):

Acute dermal toxicity

LD50 (Rabbit, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402 Remarks: For similar material(s):

Components:

Dithiopyr:

Acute oral toxicity

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

Symptoms: No deaths occurred at this concentration.

Acute inhalation toxicity

Remarks: No adverse effects are anticipated from inhalation.

Based on the available data, narcotic effects were not ob-

served.

Based on the available data, respiratory irritation was not ob-

served.

LC50 (Rat): > 5.98 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date:

02/05/2024

SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

Symptoms: No deaths occurred at this concentration.

Acute dermal toxicity

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

Symptoms: No deaths occurred at this concentration.

Anionic and nonionic surfactant blend:

Acute oral toxicity

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

Method: Acute toxicity estimate

Acute dermal toxicity

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

Method: Acute toxicity estimate

cyclohexanone:

Acute oral toxicity

LD50 (Rat): 1,890 mg/kg

Acute inhalation toxicity

Remarks: Vapor concentrations are attainable which could be

hazardous on single exposure.

May cause central nervous system effects.

Excessive exposure may cause severe irritation to upper res-

piratory tract (nose and throat) and lungs.

LC50 (Rat): > 6.2 mg/l Exposure time: 4 h

Test atmosphere: vapor

Symptoms: No deaths occurred at this concentration.

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity

: LD50 (Rabbit): 950 mg/kg

Skin corrosion/irritation

Product:

Species

: Rabbit

Method : OEC

: OECD Test Guideline 404

Result : Skin irritation

Components:

Dithiopyr:

Species

Rabbit

Result

No skin irritation

Anionic and nonionic surfactant blend:

Result

: Skin irritation

cyclohexanone:

Result

Skin irritation

according to the OSHA Hazard Communication Standard



Dimension® 2EW

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

1.0 02/05/2024 800080005557 Date of first issue: 02/05/2024

Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Components:

Dithiopyr:

Species : Rabbit

Result : No eye irritation

Anionic and nonionic surfactant blend:

Result : Eye irritation

cyclohexanone:

Result : Corrosive

Respiratory or skin sensitization

Product:

Test Type : Local lymph node assay

Species : Mouse

Assessment : The product is a skin sensitizer, sub-category 1B.

Method : OECD Test Guideline 429 Remarks : For similar material(s):

Components:

Dithiopyr:

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

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

cyclohexanone:

Assessment : Does not cause skin sensitization.

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

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date: 02/05/2024

SDS Number: 800080005557 Date of last issue: -

Date of first issue: 02/05/2024

Germ cell mutagenicity

Components:

Dithiopyr:

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

cyclohexanone:

Germ cell mutagenicity -

Assessment

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

were inconclusive

Carcinogenicity

Components:

Dithiopyr:

Carcinogenicity - Assess-

ment

: Did not cause cancer in laboratory animals.

cyclohexanone:

Carcinogenicity - Assess-

ment

Carcinogenicity classification not possible from current data.

Available data are inadequate to evaluate carcinogenicity.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is **OSHA**

on OSHA's list of regulated carcinogens.

No ingredient of this product present at levels greater than or equal to 0.1% is NTP

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Components:

Dithiopyr:

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 other effects in the fetus even at doses which caused toxic effects in

the mother.

cyclohexanone:

Reproductive toxicity - As-

sessment

Cyclohexanone caused reduced growth and survival of offspring in an animal reproduction study. Dose levels producing this effect also caused central nervous system effects in pa-

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date: 02/05/2024

SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

rental animals., In animal studies, has been shown to interfere with reproduction in males., Effects 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.

STOT-single exposure

Product:

Assessment

Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Components:

Dithiopyr:

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.

cyclohexanone:

Assessment

Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

STOT-repeated exposure

Product:

Assessment

Evaluation of available data suggests that this material is not

an STOT-RE toxicant.

Components:

Dithiopyr:

Assessment

: Evaluation of available data suggests that this material is not

an STOT-RE toxicant.

Repeated dose toxicity

Components:

Anionic and nonionic surfactant blend:

Remarks : No relevant data found.

cyclohexanone:

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

gans:

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date: 02/05/2024

SDS Number:

800080005557

Date of last issue: -

Date of first issue: 02/05/2024

Central nervous system.

Kidney. Liver.

Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed.

Aspiration toxicity

Product:

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

Components:

Dithiopyr:

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

Anionic and nonionic surfactant blend:

May be harmful if swallowed and enters airways.

cyclohexanone:

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

LC50 (Cyprinus carpio (Carp)): 3.0 mg/l

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

Method: OECD Test Guideline 203 Remarks: For similar material(s):

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 4.9 mg/l

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

Method: OECD Test Guideline 202 Remarks: For similar material(s):

Toxicity to algae/aquatic

plants

Remarks: For similar material(s):

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive

species tested).

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.15

mg/l

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date: 02/05/2024

SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

Method: OECD Test Guideline 201 Remarks: For similar material(s):

Components:

Dithiopyr:

Toxicity to fish

Remarks: Material is very highly toxic to aquatic organisms on

an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive

species).

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.5 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1.7 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 0.020 mg/l

Exposure time: 5 d Test Type: Static

ErC50 (Lemna gibba (gibbous duckweed)): 0.014 mg/l

Exposure time: 7 d

NOEC (Lemna gibba (gibbous duckweed)): 0.0024 mg/l

Exposure time: 7 d

M-Factor (Acute aquatic tox-

icity)

10

M-Factor (Chronic aquatic

toxicity)

: 10

Toxicity to soil dwelling or-

ganisms

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

Toxicity to terrestrial organ-

isms

Remarks: Material is practically non-toxic to birds on an acute

basis (LD50 > 2000 mg/kg)., Material is practically non-toxic to

birds on a dietary basis (LC50 > 5000 ppm).

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2250

mg/kg bodyweight.

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

mg/kg diet.

contact LD50 (Apis mellifera (bees)): > 100 µg/bee

Exposure time: 48 h

oral LD50 (Apis mellifera (bees)): > 119 μg/bee

Exposure time: 48 h

Anionic and nonionic surfactant blend:

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date: 02/05/2024

e: SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

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.

cyclohexanone:

Toxicity to fish

LC50 (Leuciscus idus (Golden orfe)): 630 mg/l

Exposure time: 48 h Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 527 - 732

mg/

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 820 mg/l

Exposure time: 24 h

Toxicity to algae/aquatic

plants

: LOEC (Scenedesmus quadricauda (Green algae)): 370 mg/l

Exposure time: 192 h

Method: Method Not Specified.

Toxicity to microorganisms

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

Method: OECD 209 Test

Persistence and degradability

Components:

Dithiopyr:

Biodegradability

Result: Not readily biodegradable.

Remarks: Biodegradation may occur under aerobic conditions

(in the presence of oxygen).

Anionic and nonionic surfactant blend:

Biodegradability

: Remarks: Material is expected to be readily biodegradable.

cyclohexanone:

Biodegradability

Result: Readily biodegradable.

Remarks: Material is readily biodegradable. Passes OECD

test(s) for ready biodegradability.

Biodegradation: 87 % Exposure time: 14 d

Method: OECD Test Guideline 301C or Equivalent

Remarks: 10-day Window: Not applicable

Biodegradation: 90 - 100 %

Exposure time: 28 d

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version

1.0

Revision Date:

02/05/2024

SDS Number: 800080005557

Date of last issue: -

Date of first issue: 02/05/2024

Method: OECD Test Guideline 301F

Remarks: 10-day Window: Pass

ThOD

: 2.61 kg/kg

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Concentration: 1,500,000 1/cm³ Rate constant: 1.21E-11 cm³/s

Method: Estimated.

Bioaccumulative potential

Components:

Dithiopyr:

Partition coefficient: n-

octanol/water

:

log Pow: 4.75 Method: Measured

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

Anionic and nonionic surfactant blend:

Partition coefficient: n-

octanol/water

: Remarks: No relevant data found.

cyclohexanone:

Partition coefficient: n-

octanol/water

log Pow: 0.81

Method: Measured

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

Pow < 3).

Mobility in soil

Components:

Dithiopyr:

Distribution among environ-

Koc: 20500

mental compartments

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

5000).

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.

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date: 02/05/2024

SDS Number: 800080005557 Date of last issue: -

Date of first issue: 02/05/2024

cyclohexanone:

Distribution among environ-

mental compartments

Koc: 15

Method: Estimated.

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

tween 0 and 50).

Other adverse effects

Components:

Dithiopyr:

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.

cyclohexanone:

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.

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.

according to the OSHA Hazard Communication Standard



Dimension® 2EW

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

1.0 02/05/2024 800080005557 Date of first issue: 02/05/2024

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Dithiopyr)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 3082

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

(Dithiopyr)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen-

964 964

ger aircraft)

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Dithiopyr)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : no

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 Road

UN/ID/NA number : NA 1993

Proper shipping name : Combustible liquid, n.o.s.

(Cyclohexanone)

Class : CBL
Packing group : III
Labels : NONE
ERG Code : 128
Marine pollutant : no

Reportable Quantity : Cyclohexanone only regulated in pack sizes > 17,482 kg

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version

Revision Date:

SDS Number:

Date of last issue: -

1.0

02/05/2024

800080005557

Date of first issue: 02/05/2024

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.

According to 49 CFR 173.150 (f) 2 this product is only classified in containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters). If transporting by vessel or aircraftunless other means of transportation is impracticable, the product must be shipped as a flammable liquid.

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

Flammable (gases, aerosols, liquids, or solids)

Respiratory or skin sensitization Skin corrosion or irritation

SARA 313

This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

cyclohexanone

108-94-1

California Prop. 65

WARNING: This product can expose you to chemicals including 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

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number

: 62719-542

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

according to the OSHA Hazard Communication Standard



Dimension® 2EW

Version 1.0

Revision Date:

SDS Number:

Date of last issue: -

02/05/2024 800080005557

Date of first issue: 02/05/2024

workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

WARNING

Causes skin irritation

Causes moderate eye irritation

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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)

Dow IHG : Dow Industrial Hygiene Guideline

OSHA P0 : 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

ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
Dow IHG / TWA : Time Weighted Average (TWA):
OSHA P0 / TWA : 8-hour time weighted average
OSHA Z-1 / TWA : 8-hour time weighted average

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System: GLP - Good Laboratory Practice: IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrving Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; 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; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -United Nations, CFR - Code of Federal Regulations, IARC - International Agency for Research on Cancer. IATA-DGR - International Air Transport Association Dangerous Goods Regulations. OSHA - Occupational Safety and Health Administration. RCRA - Resource Conservation and Recovery Act. RQ - Reportable Quantity. SARA - Superfund Amendments and Reauthorization Act. TSCA - Toxic Substances Control Act.

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Product code: GF-3621

according to the OSHA Hazard Communication Standard



Dimension® 2EW

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

1.0 02/05/2024 800080005557 Date of first issue: 02/05/2024

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.

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