



SAFETY DATA SHEET

Comply with regulation 453/2010 - REACH

KENNOL REVOLUTION LL12 FE 0W30

Replace version 02/08/2017

14/11/2017

FDS :878-192620-141117

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SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

- Product name: **KENNOL REVOLUTION LL12 FE 0W30**

1.2. Relevant identified uses of the substance or mixture and uses advised against

- Commercial use: 4 Stroke motor oil (for more details, please report back to the technical manual)

1.3. Details of the supplier of the Safety Data Sheet

- Fournisseur **ACCOR LUBRIFIANTS SA**

Adresse : 8 Rue du Mans - BP 30406 - 49304 CHOLET CEDEX

Téléphone : 02.41.75.26.70

Télécopie : 02.41.62.67.02

Contact e-mail : emilie.auribault@accor-lubrifiants.com

1.4. Emergency telephone number

In France, the valid emergency number is the ORFILA (INRS) number: + 33 (0)1 45 42 59 59. This telephone number gives contacts of all French poison centers ("centres anti-poison et de toxicovigilance"). These information centers provide you with free medical advice (except the cost of call), 24 hours a day, 7 days a week. For the information related to other countries, see the web page dedicated to national helpdesks of the ECHA website (European Chemicals Agency) that lists all the information by country:

<http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks>

SECTION 2 - HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification CE 1272/2008 (CLP)

This product does not meet these classification requirements.



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2.2. Label elements

Label Conforms to Norm (CE) N° 1272/2008 (CLP) :

Hazard pictogram(s):

None

Signal word(s): None

Hazard statement(s):

None

Additional phrase(s):

EUH 208 – Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.

Precautionary statement(s) – Prevention

P102 – Keep out of reach of children

Precautionary statement(s) - Intervention

None

Precautionary advice- Storage

None

Precautionary advice - Elimination

P501 - Dispose of contents/container to a hazardous waste collection center, as per national regulation

2.3. Other hazards

Flammable and combustible product if heated.

The oil mist may irritate eyes and breathing apparatus.

Prolonged and frequent contact may dry and irritate the skin and cause a rash.

The used oil can contain dangerous impurities.

Possibility of soil and groundwater contamination.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures



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- Chemical nature: Product formulated from base oils and additives

- Dangerous components:

COMPONENTS	Percentage (in weight)	CLP Classification (EC) No 1272/2008	NUMBERS
			INDEX CE CAS Registration
1-Decene, homopolymer, hydrogenated	< 40%	Asp. Tox. 1; H304	- 500-183-1 68037-01-4 -
Petroleum base oil	< 40 %	Asp. Tox. 1; H304	Mixture (*)
bis(nonylphenyl)amine	< 1.5%	Aquatic Chronic 4; H413	- 253-249-4 - 01-2119488911-28
bis(dithiophosphate) de zinc de bis[O-(6- méthylheptyle)] et de bis[O-(sec	< 1.5 %	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	- 298-577-9 - 01-2119543726-33
C14-16-18 Alkyl phenol	< 1.5%	Skin Sens. 1B; H317 Aquatic Chronic 4; H413	- - - 01-2119498288-19

(*)Mixture: Contains one or several EINECS numbers as follows: N°CE 276-738-4 (recording : 01-2119474889-13), 265-157-1 (recording : 01-2119484627-25), N° CE 265-169-7 (recording 01-2119471299-27), N° CE 265-158-7 (recording 01-2119487077-29), N° CE 265-159-2 (recording 01-2119480132-48)

Other information

This product is a petroleum product. DMSO extract < 3 % in weight (IP 346)

The whole of the text of risk phrases and hazard statements of this section 3 appears in Section 16.

SECTION 4 - FIRST AID MEASURES

4.1. Description of first aid measures

If feeling unwell seriously or persistently, immediately seek medical attention

Inhalation:

Move the subject away from the polluted area.



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Take affected person into fresh air and keep quiet.

In case of unconsciousness place patient stably in side position for transportation.

In the event of faintness, consult a doctor.

Skin contact:

Wash the skin with soap and water.

In case of persistent irritation of the skin, consult a doctor.

Wash contaminated clothing before reuse.

Eye contact:

Rinse out with plenty of water for at least 30 minutes with the eyelid held wide open. Consult an ophthalmologist if the irritation persists.

Ingestion:

DO NOT INDUCE VOMITING: seek medical or poison center advice immediately.

Move the person who is vomiting from his back onto his side.

Self-protection of the first aider:

When providing first aid, protect yourself against the exposure to chemicals or blood-borne diseases wearing gloves, masks as well as eye protection equipment. After performing first aid, wash the exposed skin with soap and water.

4.2. Most important symptoms and effects, both acute and delayed

See section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physician: treat symptomatically.

SECTION 5 - FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: CO₂, dry powder, resistant foam; the water can be used to cool and protect product containers exposed.



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Unsuitable extinguishing media for safety reason: full water jet.

5.2. Special hazards arising from the substance or mixture

For more information, see section 10.

5.3. Advice for firefighters

It is recommended to wear self-contained breathing apparatus. Water can splash close elements. Use water to cool exposed containers.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal protective equipment must be worn. Avoid all contact with skin. If the spill occurs in a closed environment or other area with poor ventilation, ventilate before entering the area.

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case product reaches water or sewage system.
Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Soak up to recycle and/or dispose of. The remaining liquid can be absorbed with inert material.

6.4. Reference to other sections

To obtain information about safe handling, please see chapter 7.
To obtain information about personal protective equipment, please see chapter 8.
To obtain information about elimination, please see chapter 13.

SECTION 7 - HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product.
Keep containers closed when unused. Do not discharge into drains or the environment, dispose of this product to an officially approved waste collection center. Use appropriate containment to avoid environmental contamination. Avoid skin contact. Wash thoroughly after handling. Wash contaminated clothing before reuse. Empty containers retain product residue that may present product hazards. Dispose of packaging and containers according to local, regional, national and international regulations.



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Pumping temperature

Ambient

Maximal handling temperature

70 °C, 158 °F

Maximal loading temperature

Not defined.

7.2. Conditions for safe storage, including any incompatibilities

Take precautions to avoid all release in the environment. To know incompatible materials, see section 10.

Maximal preservation temperature

45 °C, 113 °F

7.3. Specific end use(s)

No other important information available.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values:

Where conditions are created for the formation of mists, check the PEL of 5 mg by cubic meter of OSHA and TWA of 5mg by cubic meter of ACGIH to control possible oil mists.

Recommended control procedures: this product contains ingredients presenting exposure limits, the working atmosphere or living organisms can be necessary to determine the efficiency of ventilation or other control measures and/or the necessity to use breathing apparatus. It is worth to mention to the European EN 689 norm referring to methods to evaluate the exposure by inhalation to chemical agents and to documents of general national policy referring to methods to determine hazardous substances.

DNEL

bis(nonylphenyl)amine:

Final use: Workers

Exposure routes: Skin contact

Potential effects on health: Long run – systemic effects

Value: 0,62 mg/kg

Final use: Workers

Exposure routes: Inhalation

Potential effects on health: Long run – systemic effects



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Value: 4,37 mg/m³

Final use: Consumers

Exposure routes: Skin contact

Potential effects on health: Long run – systemic effects

Value: 0,31 mg/kg

Final use: Consumers

Exposure routes: Inhalation

Potential effects on health: Long run – systemic effects

Value: 1,09 mg/m³

Final use: Consumers

Exposure routes: Ingestion

Potential effects on health: Long run – systemic effects

Value: 0,31 mg/kg

bis(dithiophosphate) de zinc de bis[O-(6-méthylheptyle)] et de bis[O-(sec

Final use: Workers

Exposure routes: Inhalation

Potential effects on health: Long run – systemic effects

Value: 8,31 mg/m³

Final use: Workers

Exposure routes: Skin contact

Potential effects on health: Long run – systemic effects

Value: 0,58 mg/m³

Final use: Consumers

Exposure routes: Skin contact

Potential effects on health: Long run – systemic effects

Value: 0,29 mg/kg

Final use: Consumers

Exposure routes: Inhalation

Potential effects on health: Long run – systemic effects

Value: 2.11 mg/m³

Final use: Consumers

Exposure routes: Ingestion

Potential effects on health: Long run – systemic effects

Value: 0,24 mg/kg

PNEC

bis(nonylphenyl)amine :

Soft water



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Value: 0,1 mg/l

Sea water

Value: 0,01 mg/l

Soft water sediment

Value: 132000 mg/kg

Marine sediment

Value: 13200 mg/kg

Soil

Value: 263000 mg/kg

bis(dithiophosphate) de zinc de bis[O-(6-méthylheptyle)] et de bis[O-(sec

Soft water

Value: 0,004 mg/l

Sea water

Value: 0,0046 mg/l

Soft water sediment

Value: 0,0116 mg/kg

Marine sediment

Value: 0,00116 mg/kg

Waste water treatment plant

Value: 100 mg/l

Soil

Value: 0,00528 mg/kg

Oral

Value: 10,67 mg/kg

8.2. Exposure controls

The appropriate control measures for a particular workplace depend on the way the product is used and on potential exposure.

Personal protective equipment:



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The product must be handled in closed containers and equipment, in which case mechanical local ventilation should be sufficient. Local exhaust ventilation should be used in places where dusts, mists, steam or gas may leak in the local atmosphere.

Eye/face protection

Safety glasses.

Skin protection

Nitrile.

Long sleeve shirts are recommended. Use a chemical protection apron if contact with this product can happen. When working with the product heated, use an insulated apron or an insulated chemical protection garment. Wash the contaminated clothing before reuse.

Breathing protection

Use a respirator combined with an organic vapor cartridge as well as a very efficient filter if the exposure limit recommended is exceeded.

Use an insulated breathing apparatus to penetrate in confined space and other spaces poorly ventilated and for decontamination zones where big quantities have been spread.

Hygiene measures

Wash yourself thoroughly after handling this product.

Environmental exposure controls

For more details, see section 6

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

Aspect: Liquid

Density at 20°C (g/cm³): 0,841

Colour: Amber

Viscosity at 40°C (mm²/s) : 44,1

Smell: oil feature

Flash point (closed beaker) (°C): > 170°C

Flow point (°C): > 200

Ignition temperature: Not identified.

Steam pressure at 20°C: Not identified.

Partition coefficient (n-octanol/water): Not identified.

Explosive properties: This product is not known to be explosive.

Oxidizing properties: This product is a non-oxidizing substance.

9.2. Other information

No other important information available.



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SECTION 10 - STABILITY AND REACTIVITY

10.1. Reactivity

Carefully consider all information provided in sections 10.2 to 10.6.

10.2. Chemical stability

This product is normally stable with low temperatures and is not decomposed by water.

10.3. Possibility of hazardous reactions

Dangerous reactions: none when used normally.

Dangerous properties: none when used normally.

10.4. Conditions to avoid

High temperature. Excessive heat.

10.5. Incompatible materials

Strong acids. Oxidizing agents.

10.6. Hazardous decomposition products

Smoke, carbon monoxide, carbon dioxide, hydrogen sulfide, aldehydes and other products with incomplete combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product

Acute oral toxicity: there is no available information for the product itself.

Acute inhalation toxicity: there is no available information for the product itself.

Acute dermal toxicity: there is no available information for the product itself.

Skin corrosion/irritation: there is no available information for the product itself.

Serious eye damage/eye irritation: there is no available information for the product itself.

Respiratory or skin sensitization: do not induce skin sensitivity.

Germ cell mutagenicity

In vitro genotoxicity: there is no available information for the product itself.

In vivo genotoxicity: there is no available information for the product itself.



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Carcinogenicity: there is no available information for the product itself.

Toxicity for the reproduction: there is no available information for the product itself.

Specific target organ toxicity - unique exposure:

Evaluation: there is no available information for the product itself.

Specific target organ toxicity – repeated exposure:

Evaluation: there is no available information for the product itself.

Toxicity by aspiration: there is no available information for the product itself.

Components:

Petroleum base oil:

Very low toxicity

DL50/oral/rat = > 5000 mg/kg (OECD 401).

DL50/cutanée/rabbit= > 2000 mg/kg (OECD 402).

CL50/inhalatoire/4h/rat = > 5.53 mg/L (OECD 403).

1-Decene, homopolymer, hydrogenated

Acute oral toxicityToxicité:

DL50: > 5.000 mg/kg

specie: rat

Acute inhalation toxicity:

CL50: > 5,2 mg/l

Exposure time: 4 h

specy: rat

Sexe: Mâle et femelle

Test atmosphere: dust /fog

Acute dermal toxicity:

DL50: > 2.000 mg/kg

specy: rat

skin irritation:

none

Skin irritation:

No irritation

Sensibilisation

Respiratory Toxicity:

may be fatal if swallowed and enters airways

Effets CMR



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Carcinogenicity: no effect on human beings.

Mutagenicity : according the tests on animals no effects .

Toxicity for reproduction: no toxic

Complementary information:

Solvents can dry out the skin

bis(nonylphenyl)amine:

Acute oral toxicity: DL50 rat: > 5.000 mg/kg

Method: OCDE Guidance 401

Test substance: Crossed references

Comment: In view of the available data, criteria for classification are not met.

Acute toxicity by inhalation: study scientifically unjustified

Acute dermal toxicity: DL50 rat: > 2.000 mg/kg

Method: OCDE Guidance 402

Test substance: Crossed references

Comment: In view of the available data, criteria for classification are not met.

Skin corrosion/irritation: specie: rabbit

Result: No skin irritation

Method: OCDE Guidance 404

Test substance: yes

Comment: In view of the available data, criteria for classification are not met.

Serious eye damage/eye irritation: specie: rabbit

Result: No eye irritation

Method: OCDE Guidance 405

Test substance: yes

Comment: In view of the available data, criteria for classification are not met.

Respiratory or skin sensitization:

Test method: Maximalisation test

Specie: guinea pig

Result: No skin sensitization.

Method: OCDE Guidance 406

Test substance: Crossed references

Comment: In view of the available data, criteria for classification are not met.

Germ cell mutagenicity

In vitro genotoxicity: Result: negative

Test substance: Crossed references

In view of the available data, criteria for classification are not met.



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In vivo genotoxicity: Specie used for test: mouse
Test substance: Crossed references
Result: negative
In view of the available data, criteria for classification are not met.

Carcinogenicity: study scientifically unjustified
Toxicity for reproduction: Test substance: Crossed references
In view of the available data, criteria for classification are not met.

Specific target organ toxicity – unique exposure
Comment: In view of the available data, criteria for classification are not met.

Specific target organ toxicity – repeated exposure
Comment: In view of the available data, criteria for classification are not met.

Toxicity by aspiration: In view of the available data, criteria for classification are not met.

bis(dithiophosphate) of zinc of bis[O-(6-méthylheptyle)] and of bis[O-(sec:

Acute oral toxicity: DL50: 2.600 mg/kg
Test substance: yes
Method: Test according Annexe V of Directive CEE 67/548
Comments: may be harmful is swallowed

Acute toxicity by inhalation : CL50 Rat, male: > 2 mg/l
Exposition time: 1 h
Method: OCDE guidance 403
Test substance: Crossed references
BLP : no
Comment: In view of the available data, criteria for classification are not met.

Acute dermal toxicity : DL50 rabbit, male and female: > 3.160 mg/kg
Method: OCDE Guidance 402
Test substance: yes
Comment: In view of the available data, criteria for classification are not met.

Skin corrosion/irritation: specy: guinea pig
Exposition time: 4 h
Result: Skin irritation
Method: OCDE Guidance 404
Test substance: Crossed references
Specific concentration limits: Skin Irrit 2 H315> = 6.25 - 100%

Serious eye damage/eye irritation: specy: rabbit
Exposition time: 504 h
Result: Cause serious eye damage.
Method: 16 CFR 1500.42



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Test substance: Crossed references

Specific concentration limits: Eye Irrit. 2 H319> = 10 - <12.5%; Eye Dam. H318> = 12.5 - 100%

Respiratory/skin sensitization: test method : Buehler Test

Specy: Guibea pig

Result: no skin sensitization

Method: OCDE guidance 406

Test substance: Crossed references

Comment: In view of the available data, criteria for classification are not met.

Germ cell mutagenicity

Genotoxicité in vitro : Type: Ames Test

Specy for the test: Salmonella typhimurium with or without metabolic activation

Result: negativ

Method: OCDE guidance 471

BPL: no

Test substance: Crossed references

Comment: In view of the available data, criteria for classification are not met.

Genotoxicity in vivo : Type: microkernel Test

Specy for the test : mouse (male and female) Application method : intrapéritonéal Injection

Method: OCDE guidance 474

BPL :no

Result: negativ

Test substance: Crossed references

Comment: In view of the available data, criteria for classification are not met.

Carcinogenicity: data not available

Toxicité for reproduction : Specy : Rabbit

Sexe: male and female

Oral application

NOAEL: 160 mg/kg, Method: OCDE guidance 422

BPL: yes

Test substance: Crossed references

Comment: In view of the available data, criteria for classification are not met.

Specific target organ toxicity – unique exposure

Comment: In view of the available data, criteria for classification are not met.

Specific target organ toxicity – repeated exposure

Comment: In view of the available data, criteria for classification are not met.

Toxicity by aspiration: In view of the available data, criteria for classification are not met.



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SECTION 12 - ECOLOGICAL INFORMATION

12.1. Toxicity

Product:

Toxicity for fish: there is no available information for this product.

Toxicity for daphnia and other aquatic invertebrates: there is no available information for this product.

Toxicity for seaweed: there is no available information for this product.

Components:

bis(nonylphenyl)amine :

Toxicity for fish: CL50 (Danio rerio (zebrafish)): > 100 mg/l

Toxicity for daphny and other aquatic invertebrates: CE50 (Daphnia magna (Grande daphnie)): > 100 mg/l

Toxicity for algae : CE50 (Desmodesmus subspicatus (green algae)): > 100mg/l

bis(dithiophosphate) of zinc of bis[O-(6-méthylheptyle)] and of bis[O-(sec :

Toxicity for fish: CL50 (Oncorhynchus mykiss (Rainbow trout)): 4,5 mg/l

Toxicity for daphny and other aquatic invertebrates: CE50 (Daphnia magna (Grande daphnie): 5,4 mg/l

Toxicity for algae: CE50b (Selenastrum capricornutum (green algae)): 2,1 mg/l

12.2 Persistence and degradability

Substance			Time (jours)	% degradability
bis(nonylphenyl)amine	aerobic	Activated mud	28	1
bis(dithiophosphate) de zinc de bis[O-(6-méthylheptyle)] and bis[O-(sec :	aerobic	Activated mud Concentration 10mg/l	28	1.5

12.3. Bioaccumulative potential

bis(nonylphenyl)amine :

Bioaccumulation: An accumulation in aquatic organisms is predictable.

Partition coefficient: noctanol/water : log Pow: >7.6

bis(dithiophosphate) of zinc of bis[O-(6-methylheptyle)] and of bis[O-(sec :

Bioaccumulation: Due to the partition coefficient n-octanol/water, it cannot be expected an accumulation in the organism.



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Partition coefficient: noctanol/water: log Pow: 0.9 at 23 °C

12.4. Mobility in soil

Not applicable

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

Product:

No other important information available

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

· Recommendation:

Must not be disposed together with household waste.

· Waste disposal:

Do not allow product to reach sewage system.

Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14 - TRANSPORT INFORMATION

14.1. UN number

ADR, IMDG, IATA: Not regulated

14.2. UN proper shipping name

· ADR

Not regulated

· IMDG

Not regulated

· IATA

Not regulated



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14.3. Transport hazard class(es)

· **ADR**

Not regulated

· **IMDG, IATA**

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Individual precautions: The driver should not take action in case of cargo fire.

Keep public away from danger area.

IMMEDIATELY CONTACT POLICE AND FIREMEN.

Other information: None.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code"

Not identified.

SECTION 15 - REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Be ensured that all notation or local regulations are observed.

European regulatory guidelines:

- Regulation (CE) n° 1907/2006 of the European Parliament and of the Council of 18 December 2006 for Registration, Evaluation, Authorisation and Restriction of Chemical substances, as well as restrictions applicable to these substances (REACH), and establishing a European Chemicals Agency modifying directive 1999/45/CE and repealing Commission Regulation (CEE) n° 793/93 of Council Regulation (CE) n° 1488/94 of the Commission as well as directive 76/769/CEE of Council and directives 91/155/CEE, 93/67/CEE, 93/105/CE and 2000/21/CE of the Commission, with modifications.
- Regulation (CE) n° 1272/2008 of the European Parliament and of the Council of 16 December 2008 for classification, labelling and packaging of substances and mixtures, modifying and repealing directives 67/548/CEE and 1999/45/CE and modifying the regulation (CE) n° 1907/2006, with modifications.



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15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16 - OTHER INFORMATION

Modifications indications

Section 1: name of the product : 14/11/2017

Symbols and hazard phrases used in this document section 3:

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Since conditions or methods of use are not under our control, we assume no liability and expressly disclaim all liability for the use of this product. The information contained hereby is considered as true and accurate, but all declarations or suggestions are made without warranty of any kind, either expressed or implied, as to the accuracy of the information, the hazards associated with this product or results that could be obtained with the use of such product. The respect of all governmental, provincial and local regulations is left to the sole responsibility of the user.