



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

IR XL-700

Version 1.0

Revision Date 2018.05.1

Print Date 2018.05.1

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : IR XL-700

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

Use of the : Lubricant
Substance/MixtureRecommended restrictions : Reserved for industrial and professional use.
on use

1.3 Details of the supplier of the safety data sheet

Company:

DISTRIBUTED BY
INGERSOLL RAND
800D BEATY ST
DAVIDSON, NC
28036
United States of America
Telephone: +01 704-655-4000

1.4 Emergency telephone number

Emergency telephone : U.S. 24-Hour Emergency #: 800-424-9300
number: :
Outside U.S. Emergency #: +01 703-527-3887

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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Skin irritation, Category 2
Aspiration hazard, Category 1

H315: Causes skin irritation.
H304: May be fatal if swallowed and enters airways.

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Harmful

R65: Harmful: may cause lung damage if swallowed.

Dangerous for the environment

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements :

Precautionary statements :

Prevention:	
P273	Avoid release to the environment.
P280	Wear protective gloves.
Response:	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P331	Do NOT induce vomiting.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Disposal:	
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 9003-29-6 Butene, homopolymer

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Additional Labelling:

EUH208 Contains: N-1-naphthylaniline May produce an allergic reaction.

2.3 Other hazards

No information available.

3. Composition/information on ingredients**3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Butene, homopolymer	9003-29-6	Xn; R65 Xi; R38	Asp. Tox. 1; H304 Skin Irrit. 2; H315	>= 10 - < 20
2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol	118-82-1 204-279-1	R53	Aquatic Chronic 4; H413	>= 1 - < 10
N-1-naphthylaniline	90-30-2 201-983-0	Xn; R22 Xi; R43 N; R50/53	Acute Tox. 4; H302 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
diphenylamine	122-39-4 204-539-4	T; R23/24/25 R33 N; R50-R53	Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures**4.1 Description of first aid measures**

If inhaled : If inhaled
Move to fresh air.

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If not breathing, give artificial respiration.
 If breathing is difficult, give oxygen.
 In case of bluish discolouration (lips, ear lobes, fingernails),
 give oxygen as quickly as possible.
 If symptoms persist, call a physician.

In case of skin contact : In case of skin contact
 Wash off with soap and water.
 Remove contaminated clothing and shoes.
 Wash contaminated clothing before re-use.
 Get medical attention if irritation develops and persists.

In case of eye contact : In case of eye contact
 Rinse thoroughly with plenty of water, also under the eyelids.
 If eye irritation persists, consult a specialist.

If swallowed : If swallowed, DO NOT induce vomiting.
 Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂)
 Dry powder
 Foam
 Alcohol-resistant foam
 Water mist

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Burning produces noxious and toxic fumes.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
 Use personal protective equipment.

Further information : In the event of fire, cool tanks with water spray.

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6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.
Do not contaminate water.
Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Forms slippery/greasy layers with water.

7. Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
Keep container closed when not in use.
Do not use pressure to empty drums.
Ensure all equipment is electrically grounded before beginning transfer operations.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Other data : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Raw material for industry

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8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
di-"isodecyl" phthalate	26761-40-0	TWA	5 mg/m ³	2005-04-06	GB EH40
diphenylamine	122-39-4	TWA	10 mg/m ³	2005-04-06	GB EH40
		STEL	20 mg/m ³	2005-04-06	GB EH40

8.2 Exposure controls

Personal protective equipment

- Respiratory protection : Breathing apparatus needed only when aerosol or mist is formed.
In the case of vapour formation use a respirator with an approved filter.
- Hand protection : Neoprene gloves
- Eye protection : Safety glasses with side-shields
Tightly fitting safety goggles
- Skin and body protection : impervious clothing
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Provide adequate ventilation.
Do not breathe dust or spray mist.

Environmental exposure controls

- General advice : Should not be released into the environment.
Do not contaminate water.
Do not flush into surface water or sanitary sewer system.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	purple
Odour	:	mild, ester-like
Odour Threshold	:	No information available.
Flash point	:	249 °C
		Method: Cleveland open cup ASTM D 92
Ignition temperature	:	No information available.
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Flammability (solid, gas)	:	No information available.
Auto-ignition temperature	:	No information available.
pH	:	
		Not applicable
pour point	:	-40 °C
Boiling point/boiling range	:	Note: No data available
Vapour pressure	:	No data available
Density	:	No information available.
Relative density	:	0.92 at
Water solubility	:	slightly soluble negligible
Partition coefficient: n-octanol/water	:	Pow: log Pow: No data available
Solubility in other solvents	:	No information available.
Viscosity, kinematic	:	Note: No data available

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Relative vapour density : No information available.
Evaporation rate : No information available.

9.2 Other information

Oxidising potential : Note: No information available.

10. Stability and reactivity**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Conditions to avoid : Heat.
Open flame.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases
: Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides

11. Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity : Remarks: Not classified due to lack of data.

Acute oral toxicity
2,2',6,6'-tetra-tert-butyl-4,4'-
methylenediphenol : LD50: > 5,000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

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N-1-naphthylaniline : LD50: 1,625 mg/kg
Species: Rat

diphenylamine : LD50: 2,720 mg/kg
Species: Rat

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity
2,2',6,6'-tetra-tert-butyl-4,4'-
methylenediphenol : LD50: > 2,000 mg/kg
Species: Rabbit
Method: OECD Test Guideline 402

N-1-naphthylaniline : LD50 Dermal: > 5,000 mg/kg
Species: Rabbit

diphenylamine : LD50: > 2,000 mg/kg
Species: Rabbit

Skin corrosion/irritation

Skin irritation : Remarks: Not classified due to lack of data.

Skin irritation
N-1-naphthylaniline : Species: Rabbit
Result: No skin irritation
Method: Draize Test

diphenylamine : Species: Rabbit
Result: Mild skin irritation

Serious eye damage/eye irritation

Eye irritation : Remarks: Not classified due to lack of data.

Eye irritation
N-1-naphthylaniline : Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

diphenylamine : Species: Rabbit
Result: Mild eye irritation

Respiratory or skin sensitisation

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Sensitisation : Remarks: Not classified due to lack of data.

Sensitisation
N-1-naphthylaniline : Maximisation Test (GPMT)
Species: Guinea pig
Classification: May cause sensitisation by skin contact.
Result: May cause sensitisation by skin contact.

Patch Test
Species: Human
Classification: May cause sensitisation by skin contact.
Result: May cause sensitisation by skin contact.

diphenylamine : Species: Guinea pig
Result: Does not cause skin sensitisation.

Germ cell mutagenicity
N-1-naphthylaniline : Ames test
Result: negative

Chinese Hamster Ovary (CHO)
Result: negative

Genotoxicity in vivo
N-1-naphthylaniline : in vivo assay
Species: Mouse
Result: negative

Mutagenicity Assessment
Remarks : Not classified due to lack of data.

Carcinogenicity Assessment
Remarks : Not classified due to lack of data.

Reproductive toxicity Assessment
Remarks : Not classified due to lack of data.

Target Organ Systemic Toxicant - Single exposure
: Remarks: Not classified due to lack of data.

Target Organ Systemic Toxicant - Repeated exposure

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diphenylamine : Species: Mouse, male
Application Route: Oral
Target Organs: Blood, Liver, Kidney
Exposure time: (90 d)
NOEL: 1.7 mg/kg
Lowest observed effect level: 93.8 mg/kg

Species: Mouse, female
Application Route: Oral
Target Organs: Blood, Liver, Kidney
Exposure time: (90 d)
NOEL: 2.1 mg/kg
Lowest observed effect level: 107 mg/kg

: Remarks: Not classified due to lack of data.

Toxicology Assessment

Further information : There is no data available for this product.

12. Ecological information**12.1 Toxicity**

Toxicity to fish :
Remarks:
No data available

Toxicity to fish
2,2',6,6'-tetra-tert-butyl-4,4'-
methylenediphenol : LC50: > 1,000 mg/l
Exposure time: 96 h

N-1-naphthylaniline : LC50: 0.44 mg/l
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)
semi-static test Analytical monitoring: yes

diphenylamine : LC50: 2.2 mg/l
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : Remarks:

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aquatic invertebrates : No data available

Toxicity to daphnia and other aquatic invertebrates

2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol : LC50: > 1,000 mg/l
Exposure time: 96 h
Species: Mysid shrimp
static test

N-1-naphthylaniline : EC50: 0.68 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
semi-static test Analytical monitoring: yes

diphenylamine : EC50: 1.2 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae : Remarks:
No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

N-1-naphthylaniline : NOEC: 0.02 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Analytical monitoring: yes

12.2 Persistence and degradability

Biodegradability : Result: No data available

Biodegradability
N-1-naphthylaniline : aerobic
Result: According to the results of tests of biodegradability this product is not readily biodegradable.
0 %
Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Bioaccumulation : Remarks:
No data available

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Bioaccumulation
N-1-naphthylaniline : Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Temperature: 25 °C
Concentration: 0.1 mg/l
Bioconcentration factor (BCF): 427 - 2,730

12.4 Mobility in soil

Mobility : Remarks:
No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information : There is no data available for this product.

13. Disposal considerations**13.1 Waste treatment methods**

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.

14. Transport information

ADR
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods

RID
Not dangerous goods

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15. Regulatory information

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

Candidate List of Substances : Neither banned nor restricted
of Very High Concern for
Authorisation

Water contaminating class : WGK 1 slightly water endangering
(Germany) self classification

Notification status

US.TSCA : On TSCA Inventory
DSL : All components of this product are on the Canadian DSL.
AICS : On the inventory, or in compliance with the inventory
NZIoC : On the inventory, or in compliance with the inventory
ENCS : Not in compliance with the inventory
KECI : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory
IECSC : On the inventory, or in compliance with the inventory

15.2 Chemical Safety Assessment

No information available.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R38 Irritating to skin.
R43 May cause sensitisation by skin contact.
R50 Very toxic to aquatic organisms.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53 May cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.

Full text of H-Statements referred to under sections 2 and 3.

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H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Further information

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.