



IR ALL SEASON

Version:	1.0
Revision Date:	2018.05.1
Print Date:	2018.05.1

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

Product name: IR ALL SEASON

Product Use Description: Lunt

Company:

Distributor
 INGERSOLL RAND
 800 BEATY ST
 DAVIDSON, NC
 28036
 United States of America

Telephone: +01 704-655-4000

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

Prepared by Product Safety Department
 (US) +1 866-430-2775

SECTION 2. HAZARDS IDENTIFICATION

GHS-Classification

Acute toxicity	Category 5	Dermal
Skin sensitisation	Category 1	
Acute aquatic toxicity	Category 3	
Chronic aquatic toxicity	Category 3	

GHS-Labeling



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<u>Hazard statements</u>	<u>Precautionary statements</u>
<p><u>Warning</u></p> <p>May be harmful in contact with skin. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.</p>	<p>Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray., Contaminated work clothing should not be allowed out of the workplace., Avoid release to the environment., Wear protective gloves. IF ON SKIN: Wash with plenty of water., Specific treatment (see supplemental first aid instructions on this label)., If skin irritation or rash occurs: Get medical advice/ attention., Take off contaminated clothing and wash it before reuse.</p> <p>Dispose of contents/ container to an approved waste disposal plant.</p>

SECTION 3.COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
bis(tridecyl) adipate	16958-92-2	>=60 - <= 100
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	>=1 - < 5
N-1-naphthylaniline	90-30-2	>=0,1 - < 1
triphenyl phosphate	115-86-6	>=0,1 - < 1
diphenylamine	122-39-4	>=0,1 - < 1

SECTION 4. FIRST AID MEASURES**First aid procedures**

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or poison control centre immediately. If breathing is difficult, give oxygen. Keep respiratory tract clear.
Skin contact	: Wash off with soap and plenty of water. If symptoms persist, call a physician. Take off contaminated clothing and wash before reuse.
Eye contact	: If eye irritation persists, consult a specialist.
Ingestion	: Rinse mouth with water. If victim is fully conscious, give a cupful of water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not give milk or alcoholic beverages. Obtain medical attention.

Notes to physician

Symptoms	Sensitisation
Treatment	For specialist advice physicians should contact the Poisons Information Service.

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SECTION 5. FIREFIGHTING MEASURES**Flammable properties**

- Lower explosion limit : Remarks: No data available
- Upper explosion limit : Remarks: No data available

Protective equipment and precautions for firefighters

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Hazardous decomposition products : Type:
No hazardous decomposition products are known.
- 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.
- Specific hazards during firefighting : Burning produces irritant fumes.
Burning produces noxious and toxic fumes.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Environmental precautions : No special environmental precautions required.
- Methods for containment /
Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : For personal protection see section 8.
No special handling advice required.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

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

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Advice on common storage : No special restrictions on storage with other products.
 Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.
 Hand protection : Solvent-resistant gloves (butyl-rubber)
 Eye protection : Safety glasses
 Skin and body protection : Protective suit
 Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form : liquid
 Colour : straw
 Odour : mild ester-like

Safety data

Ignition temperature : Remarks: No data available
 Lower explosion limit : No data available
 Upper explosion limit : No data available
 pour point : -40 °C
 Boiling point/boiling range : No data available
 Vapour pressure : No data available
 Specific Gravity : 0,92
 Water solubility :

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negligible

Partition coefficient: n-octanol/water : No data available

Solubility in other solvents : No data available

Viscosity, kinematic : No data available

Relative vapour density : No data available

Evaporation rate : No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Contamination

Materials to avoid : Strong oxidizing agents

Hazardous decomposition products : Type:
No hazardous decomposition products are known.

Note : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Sensitisation : Remarks: May cause sensitisation by skin contact.

No data available

Component:
bis(tridecyl) adipate
16958-92-2

: Acute oral toxicity
LD50 Rat
Dose: > 5.000 mg/kg

Acute dermal toxicity
LD50 Rabbit
Dose: > 2.000 mg/kg

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STOT - repeated exposure

Application Route: Skin contact

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Component:

Benzenamine, N-phenyl-, reaction
products with 2,4,4-
trimethylpentene
68411-46-1

Acute oral toxicity
LD50 Rat
Dose: > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity
LD50 Rat
Dose: > 2.000 mg/kg

Skin irritation
Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Eye irritation
Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Sensitisation
Guinea pig
Classification: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406

Component:

N-1-naphthylaniline
90-30-2

Acute oral toxicity
LD50 Rat
Dose: 1.625 mg/kg

Acute dermal toxicity
LD50 Dermal Rabbit
Dose: > 5.000 mg/kg

Skin irritation
Rabbit
Result: No skin irritation
Method: Draize Test

Eye irritation
Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Sensitisation
Maximisation Test (GPMT) Guinea pig

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

STOT - repeated exposure

Application Route: Oral
 Target Organs: Liver, Kidney
 Assessment: May cause damage to organs through prolonged or repeated exposure.

Component:

triphenyl phosphate
 115-86-6

Acute oral toxicity
 LD50 Rat
 Dose: > 2.000 mg/kg

Acute dermal toxicity
 LD50 Rabbit
 Dose: > 7.900 mg/kg

Acute inhalation toxicity
 LC50 Rat
 Exposure time: 1 h
 Dose: > 200 mg/l

Skin irritation
 Rabbit
 Result: No skin irritation
 Method: OECD Test Guideline 404
 Exposure time: 4 h

Eye irritation
 Rabbit
 Result: No eye irritation
 Method: OECD Test Guideline 405

Sensitisation
 Maximisation Test (GPMT) Guinea pig
 Classification: Did not cause sensitisation on laboratory animals.
 Method: OECD Test Guideline 406

STOT - repeated exposure

Application Route: Oral
 Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Component:

diphenylamine
 122-39-4

Acute oral toxicity
 LD50 Rat
 Dose: 2,72 mg/kg

Acute dermal toxicity
 LD50 Rabbit
 Dose: > 2.000 mg/kg

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Skin irritation

Rabbit

Result: Mild skin irritation

Eye irritation

Rabbit

Result: Mild eye irritation

Sensitisation

Guinea pig

Result: Does not cause skin sensitisation.

Repeated dose toxicity

Oral/Mouse

NOEL: 1,7 mg/kg

Lowest observed effect level: 93,8 mg/kg

Repeated dose toxicity

Oral/Mouse

NOEL: 2,1 mg/kg

Lowest observed effect level: 107 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Biodegradability : No data available

Bioaccumulation : No data available

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
This product has no known ecotoxicological effects.

Component:bis(tridecyl) adipate
16958-92-2

: Toxicity to daphnia and other aquatic invertebrates:
static test EC50
Species: Daphnia magna (Water flea)
Dose: 4.800 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202

Benzenamine, N-phenyl-, reaction products
with 2,4,4-trimethylpentene
68411-46-1

Toxicity to fish:
LC50
Species: Danio rerio (zebra fish)
Dose: > 71 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
EC50
Species: Daphnia magna (Water flea)
Dose: 51 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae:
EbC50
Species: Desmodesmus subspicatus (green algae)
Dose: > 100 mg/l

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Exposure time: 72 h

Additional ecological information:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.

N-1-naphthylaniline
90-30-2

Toxicity to fish:

semi-static test LC50
Species: Oncorhynchus mykiss (rainbow trout)
Dose: 0,44 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method:

Toxicity to daphnia and other aquatic invertebrates:

semi-static test EC50
Species: Daphnia magna (Water flea)
Dose: 0,68 mg/l
Exposure time: 48 h
Analytical monitoring: yes

Toxicity to bacteria:

EC50
Species: Protozoa
Dose: 2 mg/l
Exposure time: 48 h

Toxicity to bacteria:

EC50
Species: Bacteria
Dose: > 10.000 mg/l
Exposure time: 3 h

Toxicity to daphnia and other aquatic invertebrates Chronic toxicity:

NOEC
Species: Daphnia magna (Water flea)
Concentration: 0,02 mg/l
Exposure time: 21 d
Analytical monitoring: yes

triphenyl phosphate
115-86-6

Toxicity to fish:

static test LC50
Species: Lepomis macrochirus (Bluegill sunfish)
Dose: 0,78 mg/l
Exposure time: 96 h
Method:

Toxicity to fish:

static test LC50
Species: Oryzias latipes (Orange-red killifish)
Dose: 1,2 mg/l
Exposure time: 96 h
Method:

Toxicity to daphnia and other aquatic invertebrates:

EC50
Species: Daphnia magna (Water flea)
Dose: 1 mg/l
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates:

EC50
Species:
Dose: 0,36 mg/l
Exposure time: 48 h

Toxicity to algae:

Growth inhibition NOEC

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Species: Green algae (*Scenedesmus subspicatus*)
Dose: 0,25 - 2,5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to fish Chronic toxicity:

NOEC
Species: *Oncorhynchus mykiss* (rainbow trout)
Concentration: 0,03 mg/l
Exposure time: 30 d

diphenylamine
122-39-4

Toxicity to fish:

LC50
Species: *Oncorhynchus mykiss* (rainbow trout)
Dose: 2,2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50
Species: *Daphnia magna* (Water flea)
Dose: 1,2 mg/l
Exposure time: 48 h

SECTION 13. DISPOSAL CONSIDERATIONS

- Further information : Dispose of wastes in an approved waste disposal facility.
The product should not be allowed to enter drains, water courses or the soil.
In accordance with local and national regulations.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
- Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**ADR**

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

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Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION**The components of this product are reported in the following inventories:**

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	On the inventory, or 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

SECTION 16. OTHER INFORMATION**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.