



# SAFETY DATA SHEET

## IR ALL SEASON

Version: 1.0

Revision Date: 04/01/2015

Print Date: 04/02/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: IR ALL SEASON

Product Use Description: Lubricant

Company:

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

Telephone: +01 704-655-4000

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

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

Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : Reserved for industrial and professional use.

### SECTION 2. HAZARDS IDENTIFICATION

Form	liquid
Colour	straw
Odour	mild ester-like

#### GHS Classification

Skin sensitisation : Category 1

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Acute aquatic toxicity : Category 3  
Chronic aquatic toxicity : Category 3

### GHS Label element

Signal word : **Warning**

Hazard pictograms : 

Hazard statements : H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Other hazards : None

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
**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.  
P363 Wash contaminated clothing before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Carcinogenicity:

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous components

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Chemical Name	CAS-No.	Concentration (%)
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

- If inhaled : 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.
- In case of skin contact : Wash off with soap and plenty of water.  
If symptoms persist, call a physician.  
Take off contaminated clothing and wash before reuse.
- In case of eye contact : If eye irritation persists, consult a specialist.
- If swallowed : 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.
- Most important symptoms and effects, both acute and delayed : Sensitisation
- Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during firefighting : Burning produces irritant fumes.  
Burning produces noxious and toxic fumes.
- Specific extinguishing methods : 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.

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Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.  
No special handling advice required.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid : Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

N-1-naphthylaniline	90-30-2	TWA	10 ml/m3	ACGIH
triphenyl phosphate	115-86-6	TWA	3 mg/m3	ACGIH
		TWA	3 mg/m3	OSHA Z-1
		TWA	3 mg/m3	OSHA P0
		TWA	3 mg/m3	NIOSH REL
diphenylamine	122-39-4	TWA	10 mg/m3	ACGIH
		TWA	10 mg/m3	OSHA P0
		TWA	10 mg/m3	NIOSH REL

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection  
Remarks : Solvent-resistant gloves (butyl-rubber)

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: straw
Odor	: mild ester-like
Odour Threshold	: No data available
pour point	: -40 °C
Boiling point/boiling range	: No data available
Evaporation rate	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 0.92
<u>Solubility(ies)</u>	
Water solubility	: negligible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Viscosity	
Viscosity, kinematic	: No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Contamination
Incompatible materials	: Strong oxidizing agents

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Hazardous decomposition products : No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Product) : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity (Product) : Acute toxicity estimate: > 40 mg/l  
Exposure time: 4 h

Method: Calculation method

Acute dermal toxicity (Product) : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Skin irritation  
Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene  
(Component) : Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404

N-1-naphthylaniline  
(Component) : Species: Rabbit  
Result: No skin irritation  
Method: Draize Test

triphenyl phosphate  
(Component) : Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404  
Exposure time: 4 h

diphenylamine (Component) : Species: Rabbit  
Result: Mild skin irritation

Eye irritation  
Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene  
(Component) : Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

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

triphenyl phosphate  
(Component) : Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

diphenylamine (Component) : Species: Rabbit  
Result: Mild eye irritation

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- Sensitisation (Product) : Remarks: May cause sensitisation by skin contact.
- Repeated dose toxicity  
diphenylamine (Component) : 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
- CMR effects  
Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene  
(Component) : Mutagenicity: Not mutagenic in Ames Test.
- N-1-naphthylaniline  
(Component) : Carcinogenicity: Animal testing did not show any carcinogenic effects.  
Mutagenicity: Animal testing did not show any mutagenic effects., Tests  
on bacterial or mammalian cell cultures did not show mutagenic effects.
- triphenyl phosphate  
(Component) : Carcinogenicity: Animal testing did not show any carcinogenic effects.  
Mutagenicity: In vitro tests did not show mutagenic effects  
Reproductive toxicity: No toxicity to reproduction
- diphenylamine (Component) : Carcinogenicity: Not classifiable as a human carcinogen.  
Mutagenicity: Animal testing did not show any mutagenic effects.  
Teratogenicity: No toxicity to reproduction  
Reproductive toxicity: No toxicity to reproduction
- Further information (Product) : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

- Toxicity to fish  
Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene  
(Component) : LC50: > 71 mg/l  
Exposure time: 96 h
- Species: Danio rerio (zebra fish)

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Method: OECD Test Guideline 203

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

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

triphenyl phosphate  
(Component) : LC50: 0.78 mg/l  
Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)  
static test  
LC50: 1.2 mg/l  
Exposure time: 96 h

diphenylamine (Component) : LC50: 2.2 mg/l  
Exposure time: 96 h

Species: Oryzias latipes (Orange-red killifish)  
static test

Species: Oncorhynchus mykiss (rainbow trout)

### Toxicity to daphnia and other aquatic invertebrates

Benzenamine, N-phenyl-,  
reaction products with 2,4,4-  
trimethylpentene  
(Component) : EC50: 51 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

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

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

EC50: 0.36 mg/l  
Exposure time: 48 h

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

Toxicity to algae  
Benzenamine, N-phenyl-,  
reaction products with 2,4,4- : EbC50: > 100 mg/l  
Exposure time: 72 h



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trimethylpentene  
(Component)                      Species: Desmodesmus subspicatus (green algae)  
Method: OECD Test Guideline 201

triphenyl phosphate  
(Component)                      : NOEC: 0.25 - 2.5 mg/l  
Exposure time: 72 h  
Species: Green algae (Scenedesmus subspicatus)  
Growth inhibition Method: OECD Test Guideline 201

Toxicity to bacteria  
N-1-naphthylaniline  
(Component)                      : EC50: 2 mg/l  
Exposure time: 48 h  
Species: Protozoa

EC50: > 10,000 mg/l  
Exposure time: 3 h  
Species: Bacteria

Toxicity to fish (Chronic toxicity)  
triphenyl phosphate  
(Component)                      : NOEC: 0.037 mg/l  
Exposure time: 30 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  
N-1-naphthylaniline  
(Component)                      : NOEC: 0.02 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: yes

### Elimination information (persistence and degradability)

Bioaccumulation (Product)        : Remarks:  
No data available

Mobility (Product)                : Remarks:  
No data available

Biodegradability (Product)        : Remarks:  
No data available

### Further information on ecology

#### Ecotoxicology Assessment

Results of PBT assessment (Product)

No data available

Additional ecological  
information (Product)                : An environmental hazard cannot be excluded in the event of  
unprofessional handling or disposal.  
This product has no known ecotoxicological effects.

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : 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

#### RID

Not dangerous goods

#### MERCOSUR

Not dangerous goods

#### DOT

Not dangerous goods

#### IATA

Not dangerous goods

#### IMDG

Not dangerous goods

Additional advice: Not classified as dangerous in the meaning of transport regulations.

### SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity**

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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1-naphthylamine	134-32-7	100	*
2-naphthylamine	91-59-8	10	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
aniline	62-53-3	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**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.

**California Prop 65** WARNING! This product contains a chemical known to the State of California to cause cancer.

aniline	62-53-3
1-naphthylamine	134-32-7
2-naphthylamine	91-59-8
naphthalene	91-20-3

### The components of this product are reported in the following inventories:

<b>US.TSCA</b>	On TSCA Inventory
<b>DSL</b>	All components of this product are on the Canadian DSL.
<b>AICS</b>	On the inventory, or in compliance with the inventory
<b>NZIoC</b>	On the inventory, or in compliance with the inventory
<b>ENCS</b>	On the inventory, or in compliance with the inventory
<b>KECI</b>	On the inventory, or in compliance with the inventory
<b>PICCS</b>	On the inventory, or in compliance with the inventory
<b>IECSC</b>	On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

### Further information

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