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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<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene</td>
<td>68411-46-1</td>
<td>&gt;= 1 - &lt; 5 %</td>
</tr>
<tr>
<td>N-1-naphthylaniline</td>
<td>90-30-2</td>
<td>&gt;= 0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>Triphenyl phosphate</td>
<td>115-86-6</td>
<td>&gt;= 0.1 - &lt; 1 %</td>
</tr>
<tr>
<td>Diphenylamine</td>
<td>122-39-4</td>
<td>&gt;= 0.1 - &lt; 1 %</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA</th>
<th>ACGIH</th>
<th>OSHA P0</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-1-naphthylaniline</td>
<td>90-30-2</td>
<td>3 mg/m³</td>
<td>ACGIH</td>
<td></td>
</tr>
<tr>
<td>triphenyl phosphate</td>
<td>115-86-6</td>
<td>3 mg/m³</td>
<td>OSHA Z-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 mg/m³</td>
<td>OSHA P0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
</tr>
<tr>
<td>diphenylamine</td>
<td>122-39-4</td>
<td>10 mg/m³</td>
<td>ACGIH</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>OSHA P0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>NIOSH REL</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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
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)
N-1-naphthylaniline (Component)
: Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

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

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

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

Hazardous decomposition products : No hazardous decomposition products are known.
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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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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
Species: Oryzias latipes (Orange-red killifish)
static test

diphenylamine (Component)

LC50: 2.2 mg/l
Exposure time: 96 h
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

diphenylamine (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-
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.
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. If the product is not classified as dangerous goods, 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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<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-naphthylamine</td>
<td>134-32-7</td>
<td>100</td>
<td>*</td>
</tr>
<tr>
<td>2-naphthylamine</td>
<td>91-59-8</td>
<td>10</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>aniline</td>
<td>62-53-3</td>
<td>5000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: 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.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>aniline</td>
<td>62-53-3</td>
</tr>
<tr>
<td>1-naphthylamine</td>
<td>134-32-7</td>
</tr>
<tr>
<td>2-naphthylamine</td>
<td>91-59-8</td>
</tr>
<tr>
<td>naphthalene</td>
<td>91-20-3</td>
</tr>
</tbody>
</table>

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.