



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

IR ALL SEASON

Version 1.0

Revision Date 30.07.2014

Print Date 02.04.2015

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

1.1 Product identifier

Trade name : IR ALL SEASON

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

Use of the Substance/Mixture : Lubricant

Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company:

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

Telephone: +01 704-655-4000

1.4 Emergency telephone number

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

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2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

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

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

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

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

Precautionary statements	: Prevention:	
	P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves.
	Response:	
	P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
	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:

- 90-30-2 N-1-naphthylaniline

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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 [%]
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1 270-128-1	R52/53	Aquatic Chronic 3; H412	>= 1 - < 10
N-1-naphthylaniline	90-30-2 201-983-0	Xn; R22 Xi; R43 N; R50/53	Acute Tox. 4; H302 Skin Sens. 1A; H317 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
triphenyl phosphate	115-86-6 204-112-2	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.1 - < 0.25
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 : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If not breathing, give artificial respiration.

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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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Sensitisation

4.3 Indication of any immediate medical attention and special treatment needed

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

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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

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.

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

7. Handling and storage

7.1 Precautions for safe 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.

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.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Lubricant

8. Exposure controls/personal protection

8.1 Control parameters

DNEL
Benzenamine, N-phenyl-,
reaction products with 2,4,4- : End Use: Workers
Exposure routes: Skin contact

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trimethylpentene Potential health effects: Chronic effects, Systemic effects
Value: 0.62 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Chronic effects, Systemic effects
Value: 4.37 mg/m3

End Use: General exposures
Exposure routes: Skin contact
Potential health effects: Chronic effects, Systemic effects
Value: 0.31 mg/kg

End Use: General exposures
Exposure routes: Inhalation
Potential health effects: Chronic effects, Systemic effects
Value: 1.09 mg/m3

End Use: General exposures
Exposure routes: Ingestion
Potential health effects: Chronic effects, Systemic effects
Value: 0.31 mg/kg

PNEC

Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : Fresh water
Value: 0.051 mg/l

Marine water
Value: 0.0051 mg/l

Fresh water sediment
Value: 9320 mg/kg

Marine sediment
Value: 932 mg/kg

Soil
Value: 1860 mg/kg

STP
Value: 1 mg/l

8.2 Exposure controls

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally
required.

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

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

Environmental exposure controls

General advice : No special environmental precautions required.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : straw

Odour : mild, ester-like

Odour Threshold : No information available.

Flash point : No information available.

Ignition temperature : No information available.

Lower explosion limit : No information available.

Upper explosion limit : No information available.

Flammability (solid, gas) : No information available.

Auto-ignition temperature : No information available.

pH : No information available.

pour point : -40 °C

Boiling point/boiling range : Note: No data available

Vapour pressure : No information available.

Density : No information available.

Relative density : 0.92

at

Water solubility :

negligible

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Partition coefficient: n-octanol/water : No information available.
Solubility in other solvents : No information available.
Relative vapour density :
No data available
Evaporation rate : No information available.

9.2 Other information

Oxidising potential : Note: No information available.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Note: No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : Contamination

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity
Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : LD50: > 2,000 mg/kg
Species: rat
Method: OECD Test Guideline 401

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

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triphenyl phosphate : LD50: > 2,000 mg/kg
Species: rat

diphenylamine : Acute toxicity estimate: 100 mg/kg

Method: Converted acute toxicity point estimate

LD50: 2.72 mg/kg
Species: rat

Acute inhalation toxicity
triphenyl phosphate : LC50: > 200 mg/l
Exposure time: 1 h
Species: rat

Acute dermal toxicity
Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : LD50: > 2,000 mg/kg
Species: rat

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

triphenyl phosphate : LD50: > 7,900 mg/kg
Species: rabbit

diphenylamine : Acute toxicity estimate: 300 mg/kg

Method: Converted acute toxicity point estimate

LD50: > 2,000 mg/kg
Species: rabbit

Skin corrosion/irritation

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

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

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

triphenyl phosphate : Species: rabbit

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

diphenylamine : Species: rabbit
Result: Mild skin irritation

Serious eye damage/eye irritation

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

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

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

triphenyl phosphate : Species: rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

diphenylamine : Species: rabbit
Result: Mild eye irritation

Respiratory or skin sensitisation

Sensitisation : Remarks: May cause sensitisation by skin contact.

Sensitisation
Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : Species: guinea pig
Classification: Did not cause sensitisation on laboratory
animals.
Method: OECD Test Guideline 406

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: The product is a skin sensitiser, sub-category 1A.

triphenyl phosphate : Maximisation Test (GPMT)

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

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

triphenyl phosphate : Ames test
Result: negative

in vitro assay
Result: negative

Unscheduled DNA synthesis (UDS)
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 observable 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 observable effect level: 107 mg/kg

: Remarks: Not classified due to lack of data.

Toxicology Assessment

Further information : No data available

12. Ecological information

12.1 Toxicity

Toxicity to fish (Chronic toxicity)
triphenyl phosphate : 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 : NOEC: 0.02 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Analytical monitoring: yes

12.2 Persistence and degradability

Biodegradability : Remarks:
No data available

Biodegradability
Benzenamine, N-phenyl-,
reaction products with 2,4,4-
trimethylpentene : Result: According to the results of tests of biodegradability this
product is not readily biodegradable.
Method: CO2 Evolution Test

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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

triphenyl phosphate : aerobic
Result: Readily biodegradable.
83 - 94 %
Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Bioaccumulation : Remarks:
No data available

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

triphenyl phosphate : Species: Oryzias latipes (Orange-red killifish)
Exposure time: 18 d
Temperature: 25 °C
Concentration: 0.01 mg/l
Bioconcentration factor (BCF): 144

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

Additional ecological information
Benzenamine, N-phenyl-, : Harmful to aquatic organisms, may cause long-term adverse

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reaction products with 2,4,4-trimethylpentene

effects in the aquatic environment.
Do not allow material to contaminate ground water system.
Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

13.1 Waste treatment methods

Product : 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.

14. Transport information

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

Special precautions for user :

Not classified as dangerous in the meaning of transport regulations.

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15. Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard Legislation : 96/82/EC Update: 2003
Directive 96/82/EC does not apply

Notification status

US.TSCA : Not On TSCA Inventory
DSL : This product contains one or several components that are not on the Canadian DSL nor NDSL.
AICS : Not in compliance with the inventory
NZIoC : Not in compliance with the inventory
ENCS : Not in compliance with the inventory
KECI : Not in compliance with the inventory
PICCS : Not in compliance with the inventory
IECSC : Not 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.
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.

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

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H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.

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.