

RDINDUCOAT®

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Material Safety Data Sheet

RDInducoat Stain Away
Version 1.1

Date 25/06/2008
Revisiondate: 30/9/2014

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

Product name and/or code : RDInducoat Stain Away

Manufacturer : Inducoat BV, PO Box 2776, 3800 GJ Amersfoort, the Netherlands

Emergency telephone : +31 (0) 33 455 60 64

Telefax : +31 (0) 33 456 25 94

2. Composition and information on ingredients

Components	EINECS / CAS- No	Symbols	R-phrases	Concentration
heptane	205-563-8 / 142-82-5	Xn, Xi, F, N	R11, 38, 51/53, 65, 67	10<25 %
propane	200-827-9 / 74-98-6	F+	R12	10<25 %
butane	203-448-7 / 106-97-8	F+	R12	10<25%
toluene	203-625-9 / 108-88-3	Xn, Xi, F	R11, 38, 48/20, 63, 65, 67	2.5-<10 %
pentane	203-692-4 / 109-66-0	Xn, F+, N	R12, 51/53, 65, 66, 67	2.5-<10 %
naphtha (petroleum), hydrodesulfurized heavy	265-185-4 / 64742-82-1	Xn, N	R 10, 51/53, 65, 66, 67	2.5-<10%
methylcyclohexane	203-624-3 / 108-87-2	Xn, Xi, F, N	R 11, 38, 51/53, 65, 67	2.5-<10%
cyclohexane	203-806-2 / 110-82-7	Xn, Xi, F, N	R11, 38, 50/53, 65, 67	1.0-<2.5%
octane	203-892-1 / 111-65-9	Xn, Xi, F, N	R 11, 38, 51/53, 65, 67	0.1-<1%
n-hexane	203-777-6 / 110-54-3	Xn, Xi, F, N	R 11, 38, 48/20, 62, 51/53, 65, 67	0.1-<1%
hexane, mixture of isomers (containing less than 5% n-hexane				

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EEC no 203-777-6)

/ 73513-42-5 Xn, Xi, F, N

R 11, 38, 51/53, 65, 67

0.1-<1%

3. Hazards identification

Hazard description:



Xn Harmful



F+ Extremely flammable



N Dangerous to the environment

Information concerning particular hazards for human and environment

:R 12

Extremely flammable

R 38 Irritating to skin

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

General

: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Eye contact

: Immediately rinse eyes with plenty running water for several minutes.

Skin contact

: Wash skin immediately and thoroughly with plenty of soap and water.

Inhalation

: In case of unconsciousness place patient stably in side position for transportation.

Ingestion

: If swallowed seek medical advice at once and show label or this Safety Data Sheet. Do not induce vomiting.

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5. Fire-fighting measures

Suitable extinguishing agents : CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Water haze. Fire-extinguishing powder. Carbon dioxide. Alcohol resistant foam.

For safety reasons unsuitable extinguishing agents : Water with full jet.

Protective equipment : No special measures required. Use respiratory protective device.

6. Accidental release measures

Person-related safety precautions : Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection : Inform respective authorities in case of seepage into water course or sewage system. Don not allow to enter sewers/surface or ground water.

Measures for cleaning/collecting: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7. Handling and storage

Handling

Information for safe handling : Ensure good ventilation/exhaustion at the workplace. Open and handle aerosol cans with care.

Information about fire and explosion protection : Do not spray into a naked flame or any incandescent material. Keep ignition sources away. Do not smoke. Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Storage

Requirements to be met by storerooms and receptacles :Store in a cool location. Observe official regulations on storing packaging with pressurized containers.

Information about storage in a storage storage facility : Observe official regulations on storing packaging with pressurized containers.

Further information about storage conditions : Keep aerosol cans tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

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8. Exposure controls /personal protection

Additional information about : No further data; see item 7.
design of technical facilities

Ingredients with limit values that require monitoring at the workplace:

142-82-5 heptane

WEL (): Long-term value: 500 ppm

74-98-6 propane

WEL (): Short-term value: 3600 mg/m³, 2000 ppm
Long-term value: 1800 mg/m³, 1000 ppm

106-97-8 butane

WEL (): Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm

108-88-3 toluene

WEL (): Short-term value: 384 mg/m³, 100 ppm
Long-term value: 191 mg/m³, 50 ppm

109-66-0 pentane

WEL (): Long-term value: 1800 mg/m³, 600 ppm

110-82-7 cyclohexane

WEL (): Short-term value: 1050 mg/m³, 300 ppm
Long-term value: 350 mg/m³, 100 ppm

Personal protective equipment :

General protective and hygienic : Keep away from foodstuffs, beverages and feed. Immediately
remove all

measures

soiled and contaminated clothing. Wash hands before breaks and at
the end of work. Do not inhale gases/ fumes/ aerosols.
Avoid contact with the skin. Avoid contact with the eyes and skin.

Respiratory protection

:In case of brief exposure or low pollution use respiratory filter device.
In case of intensive or longer exposure use self-contained respiratory
protective device. Filter AX/P2.

Protection of hands

:The glove material has to be impermeable and resistant to the
product.
Selection of the glove material on consideration of the penetration
times, rates of diffusion and the degradation

Material of gloves

: As the product is a preparation of several substances, the resistance
of the glove material can not be calculated in advance and has

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therefore to be checked prior to the application.

Penetration time of glove material : The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eyes protection :Tightly sealed goggles.

Body protection :Use protective suit.

9. Physical and chemical properties

Form : Liquid

Colour : White

Odour : Characteristic

Melting point/melting range : n.a.

Boiling point/melting range : -44°C

Flash point : -97°C

Ignition temperature : 215 °C

Self-igniting Product is not self igniting

Danger of explosion Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

Explosion limits:

lower : 1.1 %

upper : 10.9 %

Vapour pressure : at 20 °C 8300 hPa

Density : at 20 °C 0.748 g/cm³

Solubility in / miscibility with water:

: not miscible or difficult to mix.

Solvent content :

Organic solvents : 76.4%

Solids content : 23.6%

10. Stability and reactivity

Thermal decomposition / conditions to be avoided : No decomposition if used according to specifications.

Dangerous reactions : No dangerous reactions.

Dangerous decompositions products : No dangerous decomposition products known.

11. Toxicological information

Acute toxicity :

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LD/LC50 values relevant for classification	: 108-88-3 toluene Oral: LD50: 5000 mg/kg (rat) Dermal: LD50: 12124 mg/kg (rabbit) Inhalative: LC50/4 h: 5320 mg/l (sparrow) 64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy Dermal: LD50: >3160 mg/kg (rabbit) 110-82-7 cyclohexane Oral: LD50: 12705 mg/kg (rat)
Primary irritant effect	:
On the skin	: irritant to skin and mucous membranes.
On the eye	: No irritating effect.
Sensitizations	: No sensitizing effects known.
Additional toxicological information	: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant.

12. Ecological information

Ecotoxicological effects	:
Aquatic toxicity	: 142-82-5 heptane EC50/24h: >10 mg/l (Daphnia magna) LC50(48h): 4924 mg/l (Fish) 109-66-0 pentane EC50/48h: >5mg/l mg/l (Daphnia magna) 108-87-2 methylcyclohexane LC50(48h): 5 mg/l (Fish)
Remark	: Toxic for fish
General notes	: Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

13. Disposal considerations

Product	:
Recommendation	: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Used packaging :
Recommendation : Disposal must be made according to official regulations.

14. Transport information

Land of transport ADR/RID (cross-border)

ADR/RID class : 2 5F Gasses
Danger code (Kemler) : -
UN-Number : 1950
Packaging group : -
Hazard label : 2.1
Description of goods : 1950 AEROSOLS
Limited quantities (LQ) : LQ2
Transport category : 2
Tunnel restriction code : B1D

Maritime transport IMDG :
IMDG Class : 2.1
UN-Number : 1950
Label : 2.1
Packaging group : -
EMS Number : F-D, S-U
Marine pollutant : No
Proper shipping name : AEROSOLS

Air Transport ICAO-TI and IATA-DGR:
ICAO/IATA Class : 2.1
UN/ID Number : 1950
Label : 2.1
Packaging group : -
Proper shipping name : AEROSOLS, flammable
UN "Model Regulation" : UN1950; AEROSOLS; 2.1; -

15. Regulatory information

Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



Xn Harmful



F+ Extremely flammable

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N Dangerous for the environment

Hazard-determining components of labelling	: toluene
Risk phrases	: R 12 Extremely flammable. R 38 Irritating to skin. R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 63 Possible risk of harm to the unborn child. R 67 Vapours may cause drowsiness and dizziness.
Safety phrases	:S 2 Keep out of the reach of children. S 23 Do not breathe fumes/aerosol. S 46 If swallowed, seek medical advice immediately and show this container of label. S 51 Use only in well-ventilated areas.
Special labelling of certain preparations:	
Pressurized container	: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. No smoking. Build up of explosive mixtures possible without sufficient ventilation.
National regulations	:
Technical instructions (ari)	:
Class Share in %	: I 0.1- : <1,0> NK 50 – 100
Waterhazard class	: Hazardous for water
VOC-EU	: 571.5 g/l

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.

Relevant R-phrases:

- R 10 Flammable.
- R 11 Highly flammable.
- R 12 Extremely flammable.
- R 38 Irritating to skin.
- R 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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- R 62 Possible risk of impaired fertility.
- R 63 Possible risk of harm to the unborn child.
- R 65 Harmful: may cause lung damage if swallowed.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.

Abbreviations and acronyms:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

The information in this sheet complies with EU regulations.

The information in this sheet is based on the state of technology and applicable national legislation and regulations on the date of issue.

The manufacturer reserves all rights to change the contents of this sheet without notice. In case of changes a new sheet will be issued.

The user has the obligation to check each time this sheet is consulted, to check the date of publication. In the case of a publication date older than one year, the user must check with the manufacturer whether the contents of this sheet are still valid.

Since the manufacturer has no control over the actual application conditions of the product, the user bears full responsibility for compliance with applicable legal and regulatory directives.

Final determination of suitability of any material is the sole responsibility of the user, the manufacturer does not accept any liability based on the contents of this Safety Data Sheet.