

Safety Data Sheet ADDCURE 9355



Safety Data Sheet dated 27/1/2011, version 1

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

1.1 Product Identifier

Mixture identification:
Trade name: ADDCURE 9355
Trade code: PF00153

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

1.3 Details of the supplier of the safety data sheet

Company:
Jubail Chemical Industries Company (Jana)
PO Box 11919 Jubail Industrial City, 31961
Saudi Arabia
Tel. +966 33478888 ext 555 fax +966 3347 670

Competent person responsible for the safety data sheet:

CSR@nama.com.sa

1.4 Emergency telephone number

Jana
tel +966 555187961

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols:

Toxic for reproduction category 3
Xn Harmful
Xi Irritant
C Corrosive

R Phrases:



R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R52 Harmful to aquatic organisms.
R62 Possible risk of impaired fertility.

EC regulation criteria 1272/2008 (CLP):

- Warning, Acute Tox. 4, Harmful if inhaled.
- Warning, Acute Tox. 4, Harmful in contact with skin.
- Warning, Acute Tox. 4, Harmful if swallowed.
- Danger, Skin Corr. 1B, Causes severe skin burns and eye damage.
- Warning, STOT SE 3, May cause respiratory irritation.
- Danger, Eye Dam. 1, Causes serious eye damage.

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-  Warning, Skin Sens. 1, May cause an allergic skin reaction.
-  Warning, Repr. 2, Suspected of damaging the unborn child.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2 Label elements



Symbols:

C Corrosive

R Phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R37 Irritating to respiratory system.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R52 Harmful to aquatic organisms.

R62 Possible risk of impaired fertility.

S Phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 This material and its container must be disposed of as hazardous waste.

Contents:

2,2'-iminodiethylamine; diethylenetriamine
bisphenol A; 4,4'-isopropylidenediphenol
benzyl alcohol

Symbols:



Danger

Hazard Statements:

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H361f Suspected of damaging the unborn child.

Precautionary Statements:

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P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash ... Thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see ... On this label).
P322 Specific measures (see ... on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:
None

2.3 Other hazards

Other Hazards:
No other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and corresponding classification:

40% - 50% 2,2'-iminodiethylamine; diethylenetriamine
N.67/548/CEE: 612-058-00-X CAS: 111-40-0 EC: 203-865-4
Xn,Xi,C; R21/22-34-43



3.2/1B Skin Corr. 1B H314



3.4.2/1 Skin Sens. 1 H317




3.1/4/Oral Acute Tox. 4 H302



3.1/4/Dermal Acute Tox. 4 H312

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20% - 30% bisphenol A; 4,4'-isopropylidenediphenol
N.67/548/CEE: 604-030-00-0 CAS: 80-05-7 EC: 201-245-8
Repr. Cat. 3,Xi; R37-41-43-52-62
 3.7/2 Repr. 2 H361

 3.8/3 STOT SE 3 H335

 3.3/1 Eye Dam. 1 H318

 3.4.2/1 Skin Sens. 1 H317

20% - 30% benzyl alcohol
N.67/548/CEE: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9
Xn; R20/22

 3.1/4/Oral Acute Tox. 4 H302

 3.1/4/Inhal Acute Tox. 4 H332

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

After contact with skin, wash immediately with soap and plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

None

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

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- 5.2 Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
- 5.3 Advice for fire-fighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.
- 6.2 Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand
- 6.3 Methods and material for containment and cleaning up
Wash with plenty of water.
- 6.4 Reference to other sections
See also section 8 and 13

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling:
Avoid contact with skin and eyes, inhalation of vapours and mists.
Use localized ventilation system.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
- 7.2 Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
- 7.3 Specific end use(s)
None in particular

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
2,2'-iminodiethylamine; diethylenetriamine - Index: 612-058-00-X, CAS: 111-40-0, EC No: 203-865-4
TLV TWA: 1 ppm - 4,22 mg/m³ Skin
TLV STEL: Skin
bisphenol A; 4,4'-isopropylidenediphenol - Index: 604-030-00-0, CAS: 80-05-7, EC No: 201-245-8

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TLV TWA - TLV STEL- VLE 8h- VLE short: None.
benzyl alcohol - Index: 603-057-00-5, CAS: 100-51-6, EC No: 202-859-9
TLV TWA - TLV STEL- VLE 8h- VLE short: None.

8.2 Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3(S).

Thermal Hazards:

None

Environmental exposure controls:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance and colour:	clear amber liquid
Odour:	ammonia
Odour threshold:	N.A.
pH:	n.d.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	N.A.
Solubility in water:	insoluble
Lipid solubility:	alcohols, ketones, aromatic hydrocarbons
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2 Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable under normal conditions

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10.3 Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth) and powerful reducing agents.

It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents.

It may catch fire on contact with powerful oxidising agents.

10.4 Conditions to avoid:

Stable under normal conditions.

10.5 Incompatible materials:

None in particular.

10.6 Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

bisphenol A; 4,4'-isopropylidenediphenol - Index: 604-030-00-0, CAS: 80-05-7, EC No: 201-245-8

LD50 (RAT) ORAL: 4040 MG/KG

LD50 (RABBIT) SKIN: 3000 MG/KG

benzyl alcohol - Index: 603-057-00-5, CAS: 100-51-6, EC No: 202-859-9

LD50 (RABBIT) SKIN SINGLE DOSE: 2000 MG/KG

Possible risk of impaired fertility.

Toxic for reproduction category 3

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.

Harmful to aquatic organisms.

12.2 Persistence and degradability

None

12.3 Bioaccumulative potential

N.A.

12.4 Mobility in soil

N.A.

12.5 Results of PBT and vPvB assessment

List of substances dangerous for the environment and corresponding classification:

20% - 30% bisphenol A; 4,4'-isopropylidenediphenol

N.67/548/CEE: 604-030-00-0 CAS: 80-05-7 EC: 201-245-8

R52 Harmful to aquatic organisms.

12.6 Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

- 14.1 UN number:
- | | |
|-----------------|------|
| ADR-UN Number: | 2735 |
| IATA-UN Number: | 2735 |
| IMDG-UN Number: | 2735 |
- 14.2 UN proper shipping name:
- | | |
|---------------------|--|
| ADR-Shipping Name: | AMINES or POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(2,2'-iminodiethylamine; diethylenetriamine |
| IATA-Shipping Name: | AMINES or POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(2,2'-iminodiethylamine; diethylenetriamine |
| IMDG-Shipping Name: | AMINES or POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(2,2'-iminodiethylamine; diethylenetriamine |
- 14.3 Transport hazard class(es):
- | | |
|----------------|-----------|
| ADR-Class: | 8 |
| ADR-HI number: | 80 |
| IATA-Class: | 8 |
| IATA-Label: | Corrosive |
| IMDG-Class: | 8 |
| IMDG-Class: | 8 |
- 14.4 Packing Group:
- | | |
|---------------------|----|
| ADR-Packing Group: | II |
| IATA-Packing group: | II |
| IMDG-Packing group: | II |
- 14.5 Environmental hazards
- | | |
|------------------------|----|
| IMDG-Marine pollutant: | No |
|------------------------|----|
- 14.6 Special Precautions for User
- | | |
|--------------------------|------------------|
| IATA-Passenger Aircraft: | 808 |
| IATA-Cargo Aircraft: | 812 |
| IATA-ERG: | 8L |
| IMDG-EmS: | F-A , S-B |
| IMDG-Storage category: | A |
| IMDG-Storage notes: | Away from acids. |
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- | | |
|--------------------------|----|
| Environmental Pollutant: | No |
|--------------------------|----|

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP), Regulation (CE) n. 790/2009 (1° ATP CLP), Regulation (EU) n. 453/2010 (Annex I).

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).

15.2 Chemical Safety Assessment
No

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16. OTHER INFORMATION

Text of phrases referred to under heading 3:

R20/22 Harmful by inhalation and if swallowed.

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R37 Irritating to respiratory system.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R52 Harmful to aquatic organisms.

R62 Possible risk of impaired fertility.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H361 Suspected of damaging fertility or the unborn child.

H335 May cause respiratory irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of
Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical
Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of
Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport
Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"
(ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

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LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.