

Safety Data Sheet

ADDCURE 9450S



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 9450S
Trade code: 9450S

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 6705

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:

Xn Harmful
Xi Irritant
C Corrosive

R Phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitization by skin contact.

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.
- Danger, Eye Dam. 1, Causes serious eye damage.
- Warning, Skin Sens. 1, May cause an allergic skin reaction.

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

2.2 Label elements

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C

Symbols:

C Corrosive

R Phrases:

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

R34 Causes burns.

R43 May cause sensitization by skin contact.

S Phrases:

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

S28 After contact with skin, wash immediately with plenty of... (to be specified by the manufacturer).

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).

Contents:

1,3-Bis(aminometil)benzene (MXDA)

3-aminomethyl-3,5,5-trimethylcyclohexylamine

bisphenol A; 4,4'-isopropylidenediphenol

3-aminopropyl dimethylamine; N,N-dimethyl-1,3-diaminopropane 3,6-diazaoctanethylenediamin; triethylenetetramine

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.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary Statements:

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.

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.

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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.

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.

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:

<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

<10% 1,3-Bis(aminometil)benzene (MXDA)

CAS: 1477-55-0 EC: 216-032-5

Xn,Xi,C; R35-43-20/22-52/53



3.1/4/Inhal Acute Tox. 4 H332



3.1/4/Oral Acute Tox. 4 H302



3.2/1A Skin Corr. 1A H314



3.4.2/1 Skin Sens. 1 H317

4.1/C3 Aquatic Chronic 3 H412





<10% 3-aminomethyl-3,5,5-trimethylcyclohexylamine

N.67/548/CEE: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8





Xn,Xi,C; R21/22-34-43-52/53

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-  3.2/1B Skin Corr. 1B H314
-  3.4.2/1 Skin Sens. 1 H317
- 4.1/C3 Aquatic Chronic 3 H412
-  3.1/4/Oral Acute Tox. 4 H302
-  3.1/4/Dermal Acute Tox. 4 H312




<5% 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

<5% 3-aminopropyldimethylamine; N,N-dimethyl-1,3-diaminopropane
N.67/548/CEE: 612-061-00-6 CAS: 109-55-7 EC: 203-680-9
Xn,Xi,C; R10-22-34-43

-  2.6/3 Flam. Liq. 3 H226
-  3.2/1B Skin Corr. 1B H314
-  3.4.2/1 Skin Sens. 1 H317
-  3.1/4/Oral Acute Tox. 4 H302

<5% 2,4,6-tris(dimethylaminomethyl)phenol
N.67/548/CEE: 603-069-00-0 CAS: 90-72-2 EC: 202-013-9
Xn,Xi; R22-36/38

-  3.3/2 Eye Irrit. 2 H319
-  3.2/2 Skin Irrit. 2
- H315
-  3.1/4/Oral Acute Tox. 4 H302

4. FIRST AID MEASURES

4.1 Description of first aid measures
In case of skin contact:

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Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

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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.

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:

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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

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.

1,3-Bis(aminometil)benzene (MXDA) - Index: NA, CAS: 1477-55-0, EC No: 216-032-5

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

3-aminomethyl-3,5,5-trimethylcyclohexylamine - Index: 612-067-00-9, CAS: 2855-13-2, EC No: 220-666-8

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

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

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

3-aminopropylidimethylamine; N,N-dimethyl-1,3-diaminopropane - Index: 612-061-00-6, CAS: 109-55-7, EC No: 203-680-9

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

2,4,6-tris(dimethylaminomethyl)phenol - Index: 603-069-00-0, CAS: 90-72-2, EC No: 202-013-9

TLV TWA - TLV STEL- VLE 8h- VLE short: None.

3,6-diazaoctanethylenediamin; triethylenetetramine - Index: 612-059-00-5, CAS: 112-24-3, EC No: 203-950-6

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

Thermal Hazards:

None

Environmental exposure controls:

None

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance and colour:	amber liquid
Odour:	characteristic
<i>Odour threshold:</i>	N.A.
pH:	non applicable
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, glycol ethers, 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

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, 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:

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

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

1,3-Bis(aminomethyl)benzene (MXDA) - Index: N.A., CAS: 1477-55-0, EC No: 216-032-5

LD(50) orale/rat: 1040 mg/kg

LD(50) inhalation rat: 2.6 mg/4H

Harmful by inhalation and ingestion.

Corrosive by skin contact, can cause serious eye damage

Test mutagenicity: negative

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

2,4,6-tris(dimethylaminomethyl)phenol - Index: 603-069-00-0, CAS: 90-72-2, EC No: 202-013-9

LD50 (RAT) ORAL: 1200 MG/KG

LD50 (RAT) SKIN: 1280 MG/KG

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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

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:

<10% 1,3-Bis(aminomethyl)benzene (MXDA)

CAS: 1477-55-0 EC: 216-032-5

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LC(50) rainbow trout /96h: >100 mg/l

EC(50) daphnia /48h : 16 mg/l

EBC(50) algae/72h: 12 mg/l

Do not discharge product into the environment, dispose of through a licensed installation in accordance with the local legislation.

<10% 3-aminomethyl-3,5,5-trimethylcyclohexylamine

N.67/548/CEE: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<5% 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

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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: 1760
IATA-UN Number: 1760
IMDG-UN Number: 1760

14.2 UN proper shipping name:

ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine
IATA-Shipping Name: CORROSIVE LIQUID, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine
IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine

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: B
IMDG-Storage notes: Clear of living quarters.

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).

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15.2 Chemical Safety Assessment
No

16. OTHER INFORMATION

Text of phrases referred to under heading 3:

- R10 Flammable.
 - R20/22 Harmful by inhalation and if swallowed.
 - R21 Harmful in contact with skin.
 - R21/22 Harmful in contact with skin and if swallowed.
 - R22 Harmful if swallowed.
 - R34 Causes burns.
 - R35 Causes severe burns.
 - R36/38 Irritating to eyes and skin.
 - R37 Irritating to respiratory system.
 - R41 Risk of serious damage to eyes.
 - R43 May cause sensitization by skin contact.
 - R52 Harmful to aquatic organisms.
 - R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R62 Possible risk of impaired fertility.
-
- H302 Harmful if swallowed.
 - H332 Harmful if inhaled.
 - H314 Causes severe skin burns and eye damage.
 - H317 May cause an allergic skin reaction.
 - H412 Harmful to aquatic life with long lasting effects.
 - 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.
 - H226 Flammable liquid and vapour.
 - H319 Causes serious eye irritation.
 - H315 Causes skin irritation.

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.

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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.
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.