

**Safety Data Sheet**  
**AP-954 - P60210-NA**

Safety Data Sheet dated 9/12/2018, version 3

**1. IDENTIFICATION**

Product identifier

Mixture identification:

Trade name: AP-954

Other means of identification:

SDS code: P60210-NA

Recommended use of the chemical and restrictions on use

Recommended use:

Deoxidizer

Industrial uses

Professional uses

Restrictions on use:

No uses advised against are identified.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

Dysol Inc. - 791 Westport Parkway – Fort Worth, TX 76177 / Phone: 1-817-335-1826 /  
csr-na@socomore.com/ Fax Number: 817-335-2405Distributor: SOCOMORE S.A.S. - Zone Industrielle du Prat - CS 23707 - 56037 VANNES  
CEDEX - France - Tel : +33 (0)2 97 43 76 83 - Fax : +33 (0)2 97 54 20 26Distributor: Socomore Ltd - 5, Coe Avenue - Loughborough - Leicestershire - LE11 4SE - UK  
- Tel: +44 1509 262040 - Fax: +44 1509 262046Distributor: Socomore Iberia - Calle Diputacio, 260 - 08007 Barcelona - Espana - Tel: +34 917  
693 962 - Fax: +34 902 908 966Distributor: MagChem Inc. 1271, rue Ampere, suite 101, Boucherville, QC, J4B 5Z5 Canada -  
Tel: 1-450 641 8500 - Fax: 1-450 655 1717Distributor: Socomore GmbH - c/o MAZARS GmbH - Theodor-Stern-Kai 1 - 60596 Frankfurt  
am Main - Deutschland - Tel: +49 (0)89 20 70 28 83 - Fax: +49 (0) 89 88 91 98 16Distributor: Socomore Trading Shanghai - 355 East Kang Qiao Road - Kang Qiao Industrial  
Zone - Pudong - 201315 Shanghai - Tel: 862158131133 - Fax: 862158131933Dystrybutor : SOCOMORE SPzoo - Ul. Piekna 18, 00-549 Warszawa Polska - Tel : +48 608  
454 114 - Fax : +48 (22) 621 61 09

Competent person responsible for the safety data sheet:

techdirsocomore@socomore.com

Emergency phone number

CHEMTEL: 1-800-255-3924 (USA) / CANUTEC: 1-613-996-6666 (CANADA)

**2. HAZARD(S) IDENTIFICATION**

Classification of the chemical



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.

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Label elements

Hazard pictograms:



Danger

Hazard statements:

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 hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/clothing and eye/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

P312 Call a POISON CENTER/doctor if you feel unwell.

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

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

&gt;= 40% - &lt; 50% phosphoric acid ...%, orthophosphoric acid ...%


REACH No.: 01-2119485924-24, Index number: 015-011-00-6, CAS: 7664-38-2, EC:  
231-633-2

A.2/1B Skin Corr. 1B H314

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>= 1% - < 3% Nonylphenol polyethylene glycol ether

CAS: 127087-87-0

 A.1/4/Oral Acute Tox. 4 H302


 A.1/4/Inhal Acute Tox. 4 H332

 A.3/1 Eye Dam. 1 H318

 US-HAE/C2 Aquatic Chronic 2 H411

>= 0.5% - < 1% 1,3-DIETHYL-2-THIOUREA

REACH No.: 01-2119974271-37, CAS: 105-55-5, EC: 203-308-5

 A.1/4/Oral Acute Tox. 4 H302

 A.4.2/1 Skin Sens. 1 H317

 A.3/1 Eye Dam. 1 H318

 A.8/3 STOT SE 3 H335

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**4. FIRST-AID MEASURES**

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose off safely.

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

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.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of 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:

No particular treatment.

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**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

None in particular.

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Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: Not Relevant

Oxidizing properties: N.A.

Special protective equipment and precautions 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.

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**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Remove persons to safety.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

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**7. HANDLING AND STORAGE**

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

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.

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.

Storage temperature:

Store at ambient temperature.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

phosphoric acid ...%, orthophosphoric acid ...% - CAS: 7664-38-2

- OEL Type: National - TWA(8h): 1 mg/m<sup>3</sup>, 0.2 ppm - STEL: 2 mg/m<sup>3</sup>, 0.5 ppm -

Notes: France VLEI

- OEL Type: EU - TWA(8h): 1 mg/m<sup>3</sup> - STEL: 2 mg/m<sup>3</sup>

- OEL Type: ACGIH - TWA(8h): 1 mg/m<sup>3</sup> - STEL: 3 mg/m<sup>3</sup> - Notes: URT, eye and skin irr

1,3-DIETHYL-2-THIOUREA - CAS: 105-55-5

- OEL Type: National - TWA: 2.5 mg/m<sup>3</sup> - Notes: France, INRS

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#### DNEL Exposure Limit Values

1,3-DIETHYL-2-THIOUREA - CAS: 105-55-5

Worker Industry: 0.14 mg/m<sup>3</sup> - Consumer: 0.04 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 2.08 mg/kg - Consumer: 1.04 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.02 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

#### PNEC Exposure Limit Values

1,3-DIETHYL-2-THIOUREA - CAS: 105-55-5

Target: Fresh Water - Value: 0.056 mg/l

Target: Marine water - Value: 0.0056 mg/l

Target: Microorganisms in sewage treatments - Value: 0.2 mg/l

Target: Freshwater sediments - Value: 0.42 mg/kg dw

Target: Marine water sediments - Value: 0.042 mg/kg dw

Target: Soil (agricultural) - Value: 0.0511 mg/kg dw

Target: Water (intermittent discharge) - Value: 0.560 mg/l

#### Appropriate engineering controls:

None

#### Individual protection measures

##### Eye protection:

Safety goggles (EN 166)

Face protection shield.

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

##### Protection for skin:

Chemical protection clothing. (type 3 - EN14605)

Chemical protection clothing. (type 6 - EN13034)

Boots.

Protective apron.

##### Protection for hands:

Suitable gloves type: NF EN374

NR (natural rubber, natural latex).

NBR (nitrile rubber).

PVC (polyvinyl chloride).

Butyl rubber (isobutylene-isoprene copolymer)

##### Respiratory protection:

Use adequate protective respiratory equipment.

##### Thermal Hazards:

None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Appearance and colour:	CLEAR BROWN	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	1.75	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	>100° C / >212° F	--	--

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Flash Point (°F):	N.A.	--	--
Flash point (°C):	Not Relevant	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not Relevant	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	17.5	--	--
Vapour density:	0.67	--	--
Relative density:	1.265@68°F/ 20°C	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	>1	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	Not Relevant	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

**10. STABILITY AND REACTIVITY**

Reactivity

Stable under normal conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

None

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

**11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Toxicological information of the product:

N.A.

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Toxicological information of the main substances found in the product:

phosphoric acid ...%, orthophosphoric acid ...% - CAS: 7664-38-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1530 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 2740 mg/kg

Test: LC50 - Route: Inhalation - Species: Rabbit = 1.689 mg/l

1,3-DIETHYL-2-THIOUREA - CAS: 105-55-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse = 930 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 2.000 mg/kg - Notes: OCDE (402)

i) STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat < 6.25 mg/kg

Substance(s) listed on the NTP report on Carcinogens:

None.

Substance(s) listed on the IARC Monographs:

1,3-DIETHYL-2-THIOUREA - Group 3.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity

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

phosphoric acid ...%, orthophosphoric acid ...% - CAS: 7664-38-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC0 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: Daphnia magna

1,3-DIETHYL-2-THIOUREA - CAS: 105-55-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 56 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: LC50 - Species: Fish = 910 mg/l - Duration h: 96 - Notes: Brachydanio rerio

Endpoint: EC50 - Species: Algae = 310 mg/l - Duration h: 72 - Notes:

Pseudokirchneriella subcapitata

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 31.3 mg/l - Duration h: 1440 - Notes: Oncorhynchus mykiss

Endpoint: NOEC - Species: Algae = 73 mg/l - Duration h: 72 - Notes:

Pseudokirchneriella subcapitata

c) Bacteria toxicity:

Endpoint: NOEC - Species: bacteria = 2 mg/l - Duration h: 672 - Notes: Boue activee

Persistence and degradability

1,3-DIETHYL-2-THIOUREA - CAS: 105-55-5

Biodegradability: Biodegradability rate - Test: N.A. - Duration: 28 days - %: 3 - Notes: N.A.

Bioaccumulative potential

1,3-DIETHYL-2-THIOUREA - CAS: 105-55-5

Log Kow - Test: N.A. 0.57 - Duration: N.A. - Notes: N.A.

Mobility in soil

1,3-DIETHYL-2-THIOUREA - CAS: 105-55-5

Surface tension - Test: N.A. 76,1 mN/m - Duration: N.A. - Notes: mg/l 21,5 °C /1.000 mg/l (OCDE, 115)

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Other adverse effects  
 No harmful effects expected.

**13. DISPOSAL CONSIDERATIONS**

Waste treatment and disposal 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**



UN number  
 ADR-UN Number: UN3264  
 DOT number: UN3264  
 IATA-UN Number: UN3264  
 IMDG-UN Number: UN3264

UN proper shipping name  
 ADR-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid ...%, orthophosphoric acid ...%)  
 DOT-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid ...%, orthophosphoric acid ...%)  
 IATA-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid ...%, orthophosphoric acid ...%)  
 IMDG-Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid ...%, orthophosphoric acid ...%)

Transport hazard class(es)  
 ADR-Class: 8  
 DOT Hazard Class: 8  
 IATA-Class: 8  
 IATA-Label: 8  
 IMDG-Class: 8

Packing group  
 ADR-Packing Group: III  
 DOT Packing group: III  
 IATA-Packing group: III  
 IMDG-Packing group: III

Environmental hazards  
 ADR-Environmental Pollutant: No  
 IMDG-Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)  
 N.A.

Special precautions  
 DOT Special provisions: IB3, T7, TP1, TP28  
 DOT Labels: 8  
 ADR-Subsidiary risks: -  
 ADR-S.P.: IB3, T7, TP1, TP28  
 ADR-Transport category (Tunnel restriction code): 3 (E)  
 IATA-Passenger Aircraft: 852



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IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	856
IATA-S.P.:	A3 A803
IATA-ERG:	8L
IMDG-EmS:	F-A , S-B
IMDG-Subsidiary risks:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	Clear of living quarters.
Q.L.: 5L	
Q.E.: E1	

## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

List of substances included in the TSCA inventory: phosphoric acid ...%, orthophosphoric acid ...%, 1,3-DIETHYL-2-THIOUREA.

List of substances not included in the TSCA inventory: Nonylphenol polyethylene glycol ether.

#### TSCA listed substances:

phosphoric acid ...%, orthophosphoric acid ...% is listed in TSCA Section 8b

1,3-DIETHYL-2-THIOUREA is listed in TSCA Section 8b.

### SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances: no substances listed.

Section 304 - Hazardous substances: phosphoric acid ...%, orthophosphoric acid ...%.

Section 313 - Toxic chemical list: no substances listed.

### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: phosphoric acid ...%, orthophosphoric acid ...% -

Reportable quantity: 5000 pounds.

Reportable quantity for mixture: 12121.21212 pounds.

### CAA - Clean Air Act

CAA listed substances:

None.

### CWA - Clean Water Act

CWA listed substances:

phosphoric acid ...%, orthophosphoric acid ...% is listed in CWA Section 311.

### USA - State specific regulations

#### California Proposition 65

Substance(s) listed under California Proposition 65:

None.

#### Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

phosphoric acid ...%, orthophosphoric acid ...%

1,3-DIETHYL-2-THIOUREA.

#### New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

phosphoric acid ...%, orthophosphoric acid ...%.

#### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

phosphoric acid ...%, orthophosphoric acid ...%.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

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#### 16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

- H314 Causes severe skin burns and eye damage.
- H302 Harmful if swallowed.
- H332 Harmful if inhaled.
- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.

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Disclaimer:

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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet 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.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
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.
TWA:	Time-weighted average