

# Safety Data Sheet

## DUNAPOL® AD 3206 V3 MCP



Safety Data Sheet dated 7/16/2021, version 2

### 1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: DUNAPOL® AD 3206 V3 MCP

Other means of identification:

Trade code: 202115

Recommended use of the chemical and restrictions on use

Product type:

One component isocyanate

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

Company:

DUNA-USA Inc.

4210 FM 1405 Baytown, Texas 77523 - U.S.A.

Michigan Plant: 5900 West 6th street Ludington, Michigan 49431

[www.dunagroup.com/usa](http://www.dunagroup.com/usa)

Competent person responsible for the safety data sheet:

[info@dunausa.com](mailto:info@dunausa.com)

Emergency phone number

DUNA-USA Inc

t:+1 281-383-3862

### 2. HAZARD(S) IDENTIFICATION

Classification of the chemical

The product is not classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200).

Label elements

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

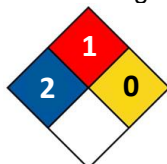
Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

NFPA rating:



HMIS rating:

# Safety Data Sheet

## DUNAPOL® AD 3206 V3 MCP



HEALTH	* 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	<input type="checkbox"/>

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

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

Qty	Name	Ident. Number	Classification
>= 60% - < 70%	Polypropylene glycol and diphenylmethane diisocyanate polymer	CAS: 39420-98-9	 
>= 25% - < 30%	Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI)	Index number: 615-005-00-9 CAS: 9016-87-9 EC: 618-498-9	       

Included in CAS: 9016-87-9 there is:

- 25 - 50 % of Difenylnmetan-4,4'-diisocyanate, CAS: 101-68-8, REACH n°: 01-2119457014-47-XXXX;

The polymer or polymers including their impurities are exempt from the registration regulations according to Article 2 (9) of REACH (EC) No. 1907/2006, therefore there are no annexes. The necessary information on the conditions of use and risk management measures (RMM) can be found in chapter 8 of this safety data sheet.

### 4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Wash with plenty of water and soap.

As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Immediately wash with lukewarm, gently flowing water and non-abrasive soap for 15-20 minutes.

Completely decontaminate clothing, shoes and leather goods before reuse or discard. If skin irritation or rash occurs get medical advice/attention.

In case of eyes contact:

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

# Safety Data Sheet

## DUNAPOL® AD 3206 V3 MCP



Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 5 minutes, or until the chemical is removed, while holding the eyelid(s) open. If irritation persists, repeat flushing. Obtain medical attention immediately.

### In case of ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

If swallowed, call a POISON CENTER or doctor/physician.

Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Quickly transport victim to an emergency care facility.

### In case of inhalation:

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

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice/attention. If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Immediately obtain medical attention and transport victim to an emergency care facility.

### Most important symptoms/effects, acute and delayed

None

### Indication of immediate medical attention and special treatment needed

#### Treatment:

Maintain the ventilation and the oxygen delivery to the patient at a proper level. It could cause pulmonary sensitisation or asthma symptoms. Bronchodilators, expectorants and cough mixtures can help. Treat the bronchospasm with beta-2-agonists (by inhalation) and corticosteroids administered orally or parenterally. Symptoms related to respiratory diseases can be shown with delayed effects, including pulmonary edema. People subjected to a significant exposure to the substance should be kept under medical supervision for 24-48 hours in case respiratory diseases appear. Ask for medical advice if already sensitized to isocyanates and exposed to other substances which can cause airways irritation or sensitisation. In case of exposure, the treatment depends on the symptoms and the clinical status of the patient. An excessive exposure to the substance could make preexisting medical conditions worse.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media:

Water.

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

### Unsuitable extinguishing media:

None in particular.

### Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### Hazardous combustion products:

None

Explosive properties: Not explosive

Oxidizing properties: Not oxydant

### 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.

# Safety Data Sheet

## DUNAPOL® AD 3206 V3 MCP



Remove persons to safety.  
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.  
See also section 8 for recommended protective equipment.  
Advice on general occupational hygiene:  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink or smoke while working.

#### 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

Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2)  
(PMDI) - CAS: 9016-87-9  
ACGIH - TWA(8h): 0.005 ppm

#### DNEL Exposure Limit Values

Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2)  
(PMDI) - CAS: 9016-87-9  
Worker Industry: 50 mg/kg bw/d - Consumer: 25 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term, systemic effects  
Worker Industry: 0.1 ppm - Consumer: 0.05 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Worker Industry: 28.7 mg/cm<sup>2</sup> - Consumer: 17.2 mg/cm<sup>2</sup> - Exposure: Human Dermal - Frequency: Short Term, local effects  
Worker Industry: 0.1 ppm - Consumer: 0.05 ppm - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Industry: 0.05 ppm - Consumer: 0.025 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 0.05 ppm - Consumer: 0.025 ppm - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 20 mg/kg bw/d - Exposure: Human Oral - Frequency: Short Term, systemic effects

#### PNEC Exposure Limit Values

Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2)  
(PMDI) - CAS: 9016-87-9  
Target: Fresh Water - Value: 1 mg/l  
Target: Marine water - Value: 0.1 mg/l  
Target: Intermittent release - Value: 10 mg/l  
Target: Soil - Value: 1 mg/Kg  
Target: STP - Value: 1 mg/l

# Safety Data Sheet

## DUNAPOL® AD 3206 V3 MCP



Appropriate engineering controls:  
None

Individual protection measures

Eye protection:  
Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:  
No special precaution must be adopted for normal use.

Protection for hands:  
Not needed for normal use.

Respiratory protection:  
Not needed for normal use.

Thermal Hazards:  
Wear protective gloves when handling the newly formed polymer in order to avoid burns.

General hygiene conditions

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes:
Appearance and colour:	Pale yellow liquid	--	--
Odour:	Slightly musty	--	--
Odour threshold:	Not available	--	--
pH:	N.A.	--	--
Melting point / freezing point:	<0 °C	ISO 3016	Data referring to PMDI, CAS: 9016-87-9
Initial boiling point and boiling range:	>300 °C	DIN 53171	Data referring to PMDI, CAS: 9016-87-9
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour density:	Not available	--	--
Flash point:	>200 °C	EN ISO 2719	Data referring to PMDI, CAS: 9016-87-9
Evaporation rate:	N.A.	--	--
Vapour pressure:	<0.00001 hPa @ 20 °C	--	Data referring to PMDI, CAS: 9016-87-9
Relative density:	1.08 g/cc	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	N.A.	--	Reacts with water
Auto-ignition temperature:	Not pyrophoric	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	3500-4000 cps (25°C)	--	--
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

### 10. STABILITY AND REACTIVITY

# Safety Data Sheet

## DUNAPOL® AD 3206 V3 MCP



### Reactivity

Stable under normal conditions

### Chemical stability

Stable under normal conditions

### Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth, alloys in powder or vapours) 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 oxidising mineral acids, and powerful oxidising agents.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

Oxidizing agents. Water

### Hazardous decomposition products

Carbon oxides. Nitrogen oxides. Cyanides.

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## 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

DUNAPOL® AD 3206 V3 MCP

#### a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

#### b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

#### c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

#### d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

#### e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

#### f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

#### g) Reproductive toxicity/toxicity to fertility

Not classified

Based on available data, the classification criteria are not met

#### h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

#### i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

#### j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Polypropylene glycol and diphenylmethane diisocyanate polymer - CAS: 39420-98-9

#### a) acute toxicity:

Test: LD50 - Route: Dermal - Species: Rabbit > 2000 mg/kg - Notes: N.A.

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg - Notes: N.A.

# Safety Data Sheet

## DUNAPOL® AD 3206 V3 MCP



Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI) - CAS: 9016-87-9

a) acute toxicity:

Test: LC50 - Route: INHALDUST - Species: Rat = 0.49 mg/l - Duration: 4h - Source: OECD TG 403 - The atmosphere created for animal testing is not representative neither of working environments nor of how the substance is put on the market nor of how the substance is reasonably expected to be used. Accordingly, the test results can't be directly

Test: LC50 - Route: Aerosol inhalation - Species: Rat = 2.24 mg/l - Duration: 1h -

Notes: Statements are derived from data of products with similar structure or composition.

Test: LC50 - Route: Aerosol inhalation - Species: Rat = 0.387 mg/l - Duration: 4h -

Notes: Statements are derived from data of products with similar structure or composition.

Test: LD50 - Route: Dermal - Species: Rabbit > 9400 mg/kg - Source: OECD TG 402

Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg - Source: OECD TG 401

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Slightly irritating - Source: OECD TG 404

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Slightly irritating - Notes: Statements are derived from data of products with similar structure or composition.

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: Guinea pig -Result: Negative - Source: OECD TG 406

Test: Skin Sensitization - Species: Mouse - Result: Positive - Source: OECD TG 429 -

Notes: Statements are derived from data of products with similar structure or composition.

Test: Respiratory Sensitization - Species: Rat - Result: Positive - Source: Deduced from hazard classification of the substance

e) germ cell mutagenicity:

Test: Genotoxicity - Route: Inhalation - Species: Rat -Result: Negative - Source: OECD

474 - Notes: Statements are derived from data of products with similar structure or composition. - Based on available data, the classification criteria are not met

f) carcinogenicity:

Route: Aerosol inhalation - Species: Rat = 6 mg/m<sup>3</sup> - Duration: 2y - Source: OECD TG

453 - Notes: 6 hours/day, 7 days/week for 2 years - Tumors developed when exposed to the highest dosage. Tested doses: 0 - 0,2 - 1 - 6 mg/m<sup>3</sup>

g) Reproductive toxicity/toxicity to fertility:

No data available for the product

h) STOT-single exposure:

Test: Target organ: airways - Notes: It can cause airways irritation

i) STOT-repeated exposure:

Test: Target organ: airways - Notes: It can damage organs in case of long-term and repeated exposure

j) aspiration hazard:

Based on available data, the classification criteria are not met

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

None.

Substance(s) listed on the IARC Monographs:

Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI) - Group 3.

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

None.

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

None.



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

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

### DUNAPOL® AD 3206 V3 MCP

Not classified for environmental hazards

Based on available data, the classification criteria are not met

### Polypropylene glycol and diphenylmethane diisocyanate polymer - CAS: 39420-98-9

#### a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 1640 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 24

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Bacteria > 100 mg/l - Duration h: 3

#### b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae 1640 mg/l - Duration h: 72

Endpoint: NOEC - Species: Daphnia > 10 mg/l

### Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2)

#### (PMDI) - CAS: 9016-87-9

#### a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Algae - *Desmodesmus subcapitata* = 1640 mg/l - Duration h: 72 - Notes: OECD TG 201

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 24 - Notes: OECD TG 202

Endpoint: LC50 - Species: Fish - *Danio Rerio* (zebrafish) > 1000 mg/l - Duration h: 96 - Notes: OECD TG 203

#### c) Toxicity to microorganism:

Endpoint: EC50 - Species: Activated sludge > 100 mg/l - Duration h: 3 - Notes: OECD TG 209

#### d) Terrestrial toxicity:

Endpoint: EC50 - Species: *Lumbricus - Eisenia Fetida* > 1000 mg/kg - Duration h: 336 - Notes: OECD TG 207

#### e) Plant toxicity:

Endpoint: EC50 - Species: Oat - *Avena sativa* = 1000 mg/kg - Duration h: 336 - Notes: OECD TG 208

Endpoint: EC50 - Species: Lettuce - *Lactuca sativa* = 1000 mg/kg - Duration h: 336 - Notes: OECD TG 208

### Persistence and degradability

#### Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI) - CAS: 9016-87-9

Biodegradability: not biodegradable - Test: Oxygen consumption - Duration: 28 d - %: 0 - Notes: OECD TG 302 C

### Bioaccumulative potential

#### Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI) - CAS: 9016-87-9

Bioaccumulation: Low bioaccumulation potential - Test: BCF - Bioconcentration factor 92 - Duration: 28 d - Notes: Low bioaccumulation potential

### Mobility in soil

#### Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI) - CAS: 9016-87-9

Notes: 07

### Other adverse effects

Isocyanates react at the interface with water producing CO<sub>2</sub> and an insoluble solid with high melting point (polyurea). The reaction is highly catalyzed by surfactants (e.g. liquid soap) and water-soluble solvents. According to the experience acquired so far, polyurea is inert and non-degradable..ec



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### 13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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### 14. TRANSPORT INFORMATION

DOT

Not classified as dangerous in the meaning of transport regulations.

IATA

Not classified as dangerous in the meaning of transport regulations

IMDG

Not classified as dangerous in the meaning of transport regulations

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

N.A.

Special precautions

N.A.

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### 15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

Polypropylene glycol and diphenylmethane diisocyanate polymer is listed in TSCA Section 8b

Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI) is listed in TSCA Section 8b, Section 8d HSDR.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: no substances listed.

Section 313 – Toxic chemical list: Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI).

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

No substances listed.

CAA - Clean Air Act

CAA listed substances:

None.

CWA - Clean Water Act

CWA listed substances:

None.

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:

Methylene diphenyl diisocyanate (CAS 101-68-8) Polymethylene polyphenyl isocyanate

(CAS 9016-87-9) New Jersey Right to know

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

Diphenylmethane - 4,4'-diisocyanate, isomers (1) and homologues (2), blending of (1) and (2) (PMDI).

US. Rhode Island RTK

Methylene diphenyl diisocyanate (CAS 101-68-8)

Polymethylene polyphenyl isocyanate (CAS 9016-87-9)

# Safety Data Sheet

## DUNAPOL® AD 3206 V3 MCP



### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Methylene diphenyl diisocyanate (CAS 101-68-8)

Polymethylene polyphenyl isocyanate (CAS 9016-87-9)

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. OTHER INFORMATION

Text of phrases referred to under heading 3:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H320 Causes eye irritation.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet dated 7/16/2021, version 2

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.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
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"

**Safety Data Sheet**  
**DUNAPOL® AD 3206 V3 MCP**



	(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