



DAINESE

DAINESE S.p.A.
Via Louvigny, 35
36064 Colceresa (VI) - Italy

APPLICABLE TO:

- 201D000001 - D-AIR® RACING SHIELD GENERATOR
- 201D000008 - D-AIR® ROAD SHIELD GENERATOR

IDENTIFICATION OF THE PRODUCTS

Metal round container, containing pressurized gas and energetic material.

Intended/recommended use : Airbag

Company identification: Mosa Safety System Corp.

18, Kehu 3rd Rd., Huwei, Yunlin 63247, Central Taiwan

Science Park-Huwei Park, Taiwan

Tel : + 886-5-636-1867

Fax: + 886-5-631-2770

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name Contents CAS NO. Symbol(s)

- Nitroguanidine 25% 556-88-7 F, Xi
- 5-Amino Tetrazole 25% 4418-61-5 Xn
- Potassium Nitrate 50% 7757-79-1 O

3. HAZARDS IDENTIFICATION

Dangers linked to product nature : Linked to operation

Mechanical energy(impact, violent shock). Heat(burning).

Toxicity: gas and combustion residues (inhalation, ingestion).

Precautions to be taken in case of exposure of danger :

- Avoid direct skin and eye contact with combustion residues.
- Avoid inhalation or ingestion.
- Avoid touching inflator body after operation.

4. FIRST AID MEASURES

Inhalation : Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

Skin contact: Rinse immediately with plenty of water.

Eye contact: Flush with large amounts of water while holding eyelids open. Get medical attention immediately.

Do not wear contact lenses when working with this material.

Ingestion : Immediate bonding of mouth will occur, Get medical attention.

5. FIRE –FIGHTING MEASURES

Prevention : No smoking.

Extinguishing media : Carbon dioxide. Dry chemicals, Foam.

Protection against fire : All fire-fighting personnel must wear safety suits .Use self contained breathing apparatus.

Special procedures : Avoid (reject) fire-fighting water to enter environment.

Exercise caution when fighting any chemical fire.

After a fire, you must consider pyrotechnic system as still active and you must neutralize it through ignition.



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6. ACCIDENTAL RELEASE MEASURES

Personal precaution : Equip cleanup crew with proper protection. Respiratory protection equipment may be necessary.

Environmental precaution : Keeping away from drains, surface-and ground-water and soil.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Wear NIOSH approved respirator for organic vapors if needed, and protective clothing.

7. HANDLING AND STORAGE

Handling :

Interdiction : To work on a pyrotechnic product (drilling, tapping, generator removal, etc.)

Handling recommendations : Avoid submitting to violent impact.

Batteries must be disconnected for any intervention on vehicle.

Electrical environment control : Maintain sufficient and permanent distance between harness and igniter electrical components and any other object conducting or slightly conducting object.

Environment : Avoid chemically corrosive environments.

Do not expose to heat.

Do not expose to flames or sparks.

Storage :

Storage condition : Do not store in humidity or close to a heat source (temperature included between -35 to +85°C)

Packing : Product must be stored in its original certified package.

Specific precautions : Fire extinguishers or any other fire fighting means must be available on storage areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection:

Respiratory protection : Avoid prolonged or repeated breathing of vapor or mists.

If exposure may or does exceed occupational exposure limits, use an authority approved respirator to prevent overexposure.

Heat protection : Wear polyethylene gloves. Do not wear rubber or cloth gloves.

Skin protection : Special clothing / skin protection equipment is recommended.

Eye protection : Safety glasses, goggles or face shield to protect against splashing.

Ingestion : When using, do not eat, drink or smoke.

Change/removal of clothing : Remove contaminated clothing and launder before reuse.

Discard shoes, belts, wallets, and any other contaminated leather items.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Metal round container, containing pressurized gas and energetic material.

Colour : Black.

Odor : None.

pH value : Not applicable.

Boiling point : Not applicable.

Flash point : Not applicable.

Flammability(solid, gas) : Flammable.

Explosive properties : Not available.

Oxidising properties : Not available.

Vapor pressure (mmHg) : Not applicable.



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Relative density (air=1) : Not applicable.
Solubility : Not applicable.
Partition coefficient, n-octanol/water : Not applicable.
Viscosity : Not applicable.
Vapour density : Not applicable.
Evaporation rate : Not applicable.
Auto-ignition temperature : 235°C

10. STABILITY AND REACTIVITY

Stability : In normal storage and use conditions, this product does not present any specifically instable danger.
Conditions to avoid : Avoid chemically corrosive environments. Avoid exposing to heat. Avoid exposing to flames or sparks.
Hazardous decomposition products : During operation, combustion causes slightly gaseous emissions.

11. TOXICOLOGICAL INFORMATION

Adverse health effect: No toxicological risk linked to handling of this product.
No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity : No data available.
Mobility : No data available.
Persistence and degradability : No data available.
Bioaccumulative potential : No data available.
Other adverse effects : No data available.

13. DISPOSAL CONSIDERATIONS

Disposal : Disposal should be in accordance with local, state or national legislation.
An active pyrotechnic product (no used) can be made inert only through ignition. It can only be destroyed in an authorized facility or by authorized people.

14. TRANSPORT INFORMATION

IMDG : UN3268 / CLASS 9 / PACKING GROUP : III
Proper Shipping Name : Safety devices
ADR : UN3268 / CLASS 9 / PACKING GROUP : III
Proper Shipping Name : Safety devices
RID : UN3268 / CLASS 9 / PACKING GROUP : III
Proper Shipping Name : Safety devices
ICAO / IATA : UN3268 / CLASS 9 / PACKING GROUP : III
Proper Shipping Name : Safety devices

15. REGULATORY INFORMATION

Symbol(s) : Oxidizing, High flammable, Irritant, Harmful
R Phrase(s) : R 11-36/37/38 : Highly flammable, Irritating to eyes, respiratory system and skin.
R8 : Contact with combustible material may cause fire.



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S Phrase(s) : S 16-33-26-36-37-39 : Keep away from sources of ignition-no smoking.

Take precautionary measures against static discharges. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing gloves and eye/face protection.

16. OTHER INFORMATION



Product name: D-AIR

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / FIRM

1.1 Product identifier

Trade name of the product	Commercial code of the product
AVRO D-AIR 2PCS SUIT	1D10025
D-AIR ARMOR EVO	1D10029
TUONO D-AIR LEATHER JACKET	1D20019
TUONO D-AIR PERF. LEATHER JACKET	1D20020
RACING 3 D-AIR LEATHER JACKET	1D20021
RACING 3 D-AIR PERF. LEATHER JACKET	1D20022
CARVE MASTER 2 D-AIR GORE-TEX JACKET	1D20023
MISANO 2 D-AIR PERF. 1PC SUIT	1D10028
AVRO D-AIR LADY 2PCS SUIT	2D10025
MISANO 2 D-AIR LADY PERF. 1PC SUIT	2D10028
D-AIR SKI EVOLUTION	4D30002
D-AIR SKI EVOLUTION LADY	4D30003
MISANO 2 D-AIR DUCATI LAMBORGHINI PERF.	201D100056
MISANO 2 D-AIR DUCATI LAMBORGHINI	201D100062
GP21 D-AIR PERF. 1PC SUIT	201D100070
MUGELLO R D-AIR	201D10023
MISANO 3 PERF. D-AIR® 1PC LEATHER SUIT	201D10031
MUGELLO RR D-AIR PERF. SUIT	201D10032
MUGELLO 3 PERF. D-AIR® 1PC LEATHER SUIT	201D10040
MISANO 3 PERF. D-AIR® 1PC LEATHER SUIT WMN	202D10031
RACING 3 D-AIR LADY LEATHER JACKET	202D20021
MISANO 2 D-AIR DUCATI PERF.	208D10009
MISANO 2 D-AIR DUCATI	208D10010

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

Relevant uses: self-inflating safety device for motorcycle riders and athletes, aimed at protecting in case of accident.

Uses advised against: all uses not specified in this data sheet and in the instructions for use of the product.

1.3 Details of the supplier of the safety data sheet

Dainese S.p.A.

Via Louvigny, 35

36064 Colceresa (VI)

ITALY

Telephone: 0424 410711

E-mail: info@dainese.com

E-mail address of the competent person responsible for SDS matters: SDS@dainese.com

1.4 Emergency telephone number

Niguarda Hospital Poison Center (Milan): +39 02 66101029



Product name: D-AIR

Dainese Technical Assistance Center (for information of a technical nature): +39 0424 410711
(only available in the following office hours: Monday to Friday, from 8.30 to 12.30 and from 13.30 to 17.30, GMT+1)

Legal notice (EU)

This product is not a “substance” or a “mixture” in accordance with Regulation (EC) No. 1907/2006. Instead, it must be regarded as an “article, no substances are intended to be released during handling. Therefore, there is no obligation to supply a safety data sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006.

General notice

These details are supplied as a service for our customers. The details supplied are in accordance with our current knowledge and expertise. They do not constitute contractual guarantees of the product's characteristics.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) no. 1272/2008 (CLP)

Flam. Liq. 2, H225
Flam. Sol. 1, H228
Self-heat. 1, H251
Water-react. 2, H261
Ox. Sol. 1, H271
Press. Gas (Comp.), H280
Acute Tox. 3, H301
Skin Corr. 1A, H314
Repr. 1B, H360
STOT RE 1, H372

Additional information
None.



Product name: D-AIR

2.2 Label elements

Labelling in accordance with Regulation (EC) no. 1272/2008 (CLP)

Hazard pictograms

/ GHS02



GHS03



GHS04



GHS05



GHS06



GHS07



GHS08

WARNINGS

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H228 Flammable solid.

H251 Self-heating; may catch fire.

H261 In contact with water releases flammable gases.

H271 May cause fire or explosion; strong oxidiser.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P220 Keep/Store away from clothing/.../combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P235 + P410 Keep cool. Protect from sunlight.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

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

P281 Use personal protective equipment as required.

P301 + P310 IF SWALLOWED: Call a POISON CENTER or doctor/physician.

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



Product name: D-AIR

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.
P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use ... for extinction.
P371 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P402 Store in a dry place.
P402 Store in a dry place.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P407 Maintain air gap between stacks/pallets.
P420 Store away from other materials.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Additional information on hazards (EU)

Not applicable.

2.3 Other hazards

The product includes a rechargeable lithium ion battery.
The battery is hermetically sealed. Therefore, the ingredients have no potential hazards, unless the battery is tampered with or dismantled.
In case of abuse, if the ingredients are released a mixture of flammable gas may be released in specific conditions (see measures under Sections 4 to 6).
Warning: if the batteries are handled incorrectly there is a risk of burns or explosions. The batteries must never be heated to over 100 °C or incinerated. The content of the battery must never come into contact with water. If the negative electrode comes into contact with water or moisture, hydrogen gas develops and this may ignite spontaneously.

SECTION 3: COMPOSITION / INFORMATION ON THE INGREDIENTS

3.1 Substances

Not applicable.



Product name: D-AIR

3.2 Mixtures

Product identifier	Concentration (by weight)	Name	Classification in accordance with Regulation (EC) no. 1272/2008 (CLP)
CAS number 7440-59-7 EC number 231-168-5 Index number / REACH registration number /	0,027% – 0,058%	Helium	Press. Gas (Comp.) H280
CAS number 7440-67-7 EC number 231-176-9 Index number 040-001-00-3 REACH registration number 01-2119490102-49-XXXX	0,001% – 0,002%	Zirconium	Self-heat. 1 H251
CAS number 7778-74-7 EC number 231-912-9 Index number 7778-74-7 REACH registration number 01-2120764842-47-XXXX	0,001% – 0,002%	Potassium perchlorate	Ox. Sol. 1 H271 Acute Tox. 4 H302
CAS number 7440-33-7 EC number 231-143-9 Index number / REACH registration number 01-2119488910-30-XXXX	0,001%	Tungsten	Flam. Sol. 1 H228 Self-heat. 2 H252
CAS number 1309-48-4 EC number 215-171-9 Index number / REACH registration number /	<0,001%	Magnesium oxide	/



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CAS number 12190-79-3 EC number 235-362-0 Index number / REACH registration number 01-2119974118-31-0000	Unavailable	Cobalt lithium dioxide	Repr. 1B H360
CAS number 24937-79-9 EC number 607-458-6 Index number / REACH registration number /	Unavailable	Polyvinylidene fluoride	/
CAS number 1333-86-4 EC number 215-609-9 Index number / REACH registration number 01-2119384822-32-XXXX	Unavailable	Carbon black	/
CAS number 7782-42-5 EC number 231-955-3 Index number / REACH registration number /	Unavailable	Graphite	/
CAS number 9003-55-8 EC number 618-370-2 Index number / REACH registration number /	Unavailable	1,3 Butadiene/styrene copolymers	/
CAS number 9004-32-4 EC number 618-378-6 Index number / REACH registration number /	Unavailable	Carboxymethylcellulose	/



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CAS number 96-49-1 EC number 202-510-0 Index number / REACH registration number 01-2119540523-46-XXXX	Unavailable	Ethylene carbonate	Acute Tox. 4 H302 Eye Irrit. 2 H319 STOT RE 2 H373
CAS number 616-38-6 EC number 210-478-4 Index number / REACH registration number 01-2119548399-23-XXXX	Unavailable	Dimethyl carbonate	Flam. Liq. 2 H225
CAS number 21324-40-3 EC number 244-334-7 Index number / REACH registration number 01-2119383485-29-XXXX	Unavailable	Lithium hexafluorophosphate	Acute Tox. 3 H301 Skin Corr. 1A H314 Eye Dam. 1 H318 STOT RE 1 H372
CAS number 7440-50-8 EC number 231-159-6 Index number / REACH registration number 01-2119480154-42-XXXX	Unavailable	Copper	/
CAS number 7429-90-5 EC number 231-072-3 Index number 013-002-00-1 REACH registration number 01-2119529243-45-0000	Unavailable	Aluminium	Flam. Sol. 1 H228 Water-react. 2 H261

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: FIRST AID MEASURES



Product name: D-AIR

4.1 Description of first aid measures

The first aid measures in case of accidental exposure to the substances incorporated in the product are indicated below.

Following inhalation

Fresh air. Seek medical attention.

Following skin contact

Remove the particles. Remove contaminated clothing. Seek medical attention.

Following eye contact

Seek medical attention.

Following ingestion

Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Possibility of injuries from explosion in the case of improper use of the product.

4.3 Indication of any immediate medical attention and special treatment needed

Following an accident seek immediate medical attention.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Chemical powder fire extinguishers.

Unsuitable extinguishing media

Water. Water fire extinguishers. Carbon dioxide.

5.2 Special hazards arising from the substance or mixture

If the product is involved in a fire, explosions may occur.

Inhalation of the combustion products (zirconium oxide, potassium chloride, carbon dioxide, carbon monoxide, nitrogen oxides, traces of other potentially irritating and toxic gases and fumes) may lead to asphyxia or intoxication.

5.3 Advice for firefighters

After extinguishing, if indoors air the premises and move into the open air.



Product name: D-AIR

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

In case of accidental spills or release of hazardous substances or mixtures contained in the product, follow the instructions below:

- wear suitable protective equipment (including personal protective equipment referred to under Section 8) to prevent any contamination of skin, eyes and personal clothing;
- disconnect the product from the power supply;
- remove ignition sources and provide sufficient ventilation;
- as emergency procedure, evacuate the danger area and consult an expert.

6.2 Environmental precautions

In case of accidental spills or release of hazardous substances or mixtures contained in the product, keep away from drains surface and ground water.

6.3 Methods and material for containment and cleaning up

In case of accidental spills or release of hazardous substances or mixtures contained in the product, contain them and clean them up, packing the objects securely.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Follow the recommendations provided in the instructions for use of the product.

Do not tamper with the product and do not make any changes, unless expressly authorised in writing by the manufacturer.

Do not smoke and remove ignition sources.

Take precautions against electrostatic discharges.

Avoid abrasions, shocks and friction.

7.2 Conditions for safe storage, including any incompatibilities

Where possible store inside the original packaging.

Store at temperatures between -20 °C and +60 °C.

Keep out of reach of children.

Keep away from heat sources/sparks/open flames/hot surfaces.

Store in a dry place.

Store in a well-ventilated place.

Store locked up.

7.3 Specific end use(s)

No recommendations.



Product name: D-AIR

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Using the product in accordance with the intended use, there is no exposure to substances or mixtures with occupational exposure limit values.

8.2 Exposure controls

In case of accidental spills or release of hazardous substances or mixtures contained in the product, use the following personal protective equipment:

- Eye/face protection: safety glasses.
- Skin protection: protective gloves.

Environmental exposure controls
See Section 13.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Section not applicable (see "legal notice (EU)" in Section 1).

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The product contains water-reactive substances. Contact of the components contained in the product (in particular the gas generator) with water must be avoided.

10.2 Chemical stability

Under storage at normal ambient temperatures between -20 °C and +60 °C, the product is stable.

10.3 Possibility of hazardous reactions

At temperatures exceeding 60 °C the components contained in the product can cause hazardous reactions, with risk of explosion.

10.4 Conditions to avoid

Avoid exposure of the product to corrosive conditions, heat, flames and sparks.

10.5 Incompatible materials

None, in addition to those indicated in subsection 10.1.

10.6 Hazardous decomposition products

In case of triggering of the gas generators contained in the product, zirconium oxide, potassium chloride, carbon dioxide, carbon monoxide, nitrogen oxides and traces of other potentially irritating and toxic gases and fumes can be released.



Product name: D-AIR

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There are no adverse toxicological effects related to the use of this product when complying with the recommendations provided in the instructions for use.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The product contains components that cannot be treated / disposed of as urban waste. For end-of-life disposal of the product contact the Dainese Technical Assistance Service. The supplier shall arrange for the return and correct disposal of the product. Disposal of the product not in accordance with the above recommendations can cause hazardous conditions and/or environmental pollution.



Product name: D-AIR

SECTION 14: TRANSPORT INFORMATION

14.1 UN number
UN 2990

14.2 UN proper shipping name
LIFE-SAVING APPLIANCES, SELF-INFLATING

14.3 Transport hazard class(es)

Transport by road (ADR)

Class: 9
Label: 9
Transport category: 3
Tunnel restriction code: E

Transport by rail (RID)

Class: 9
Label: 9
Transport category: 3

Transport by sea (IMDG code)

Class: 9
Label: 9
EmS: F-A, S-V

Transport by air (ICAO TI –IATA DGR)

Class: 9
Label: 9

14.4 Packing group
Not allocated.

14.5 Environmental hazards

Transport by road (ADR)

Hazardous to the environment: no

Transport by rail (RID)

Hazardous to the environment: no

Transport by sea (IMDG code)

Marin pollutant: no

Transport by air (ICAO TI –IATA DGR)

Hazardous to the environment: no



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14.6 Special precautions for user

Transport hazardous goods packed in accordance with the packing procedures established.
Ensure suitable labelling and marking of the packages.
Ensure that personnel engaged in transporting hazardous goods have the necessary training.

Transport by road (ADR)

Special provisions: 296, 635
Packing instructions: P905

Transport by rail (RID)

Special provisions: 296, 635
Packing instructions: P905

Transport by sea (IMDG code)

Special provision: 296
Packing instructions: P905

Transport by air (ICAO TI –IATA DGR)

Packing instructions: 955
Special provisions: A48, A87

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Refer to the legislative and regulatory provisions in force in the country of use of the product.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.



Product name: D-AIR

SECTION 16: OTHER INFORMATION

Key / legend to the abbreviations and acronyms used

- ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route) - European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS: Chemical Abstract Service
- EC: European Community
- CLP (Classification, Labelling and Packaging): Regulation (EC) no.1272/2008 of the European Parliament and Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures
- IATA (International Air Transport Association) DGR (Dangerous Goods Regulations)
- IMDG code - International Maritime Dangerous Goods code
- UN: United Nations
- PBT - Persistent, Bioaccumulative and Toxic
- REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals): Regulation (EC) no. 1907/2006 of the European Parliament and Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
- RID (Règlement concernant le transport International ferroviaire des marchandises Dangereuses): Regulations concerning the International Carriage of Dangerous Goods by Rail
- ICAO (International Civil Aviation Organization) TI (Technical Instructions): Technical Instructions for the Safe Transport of Dangerous Goods by Air
- EU: European Union
- vPvB very Persistent and very Bioaccumulative

Key sources for data

<https://echa.europa.eu>

<https://eur-lex.europa.eu>

List of relevant hazard statements and/or precautionary statements

H225 Highly flammable liquid and vapour.

H228 Flammable solid.

H251 Self-heating; may catch fire.

H261 In contact with water releases flammable gases.

H271 May cause fire or explosion; strong oxidiser.

H280 Contains gas under pressure; may explode if heated.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.



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P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P220 Keep/Store away from clothing/.../combustible materials.
P221 Take any precaution to avoid mixing with combustibles.
P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P235 + P410 Keep cool. Protect from sunlight.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301 + P310 IF SWALLOWED: Call a POISON CENTER or doctor/physician.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use ... for extinction.
P371 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. P402 Store in a dry place.
P402 Store in a dry place.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P407 Maintain air gap between stacks/pallets.
P420 Store away from other materials.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.