



**Product name: SMART JACKET**

**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
SMART JACKET	1D20024
SMART JACKET LADY	2D20024
STELVIO D-AIR D-DRY XT JACKET	1D20035
SMART JACKET HI VIS	1D20033
SMART JCK 21M LEATHER	1D20038
GYNZA D-AIR TEX JACKET	1D20028
NEW SMART JACKET	1D20039
SMART JACKET DUCATI	8D20012
NEW SMART JACKET LADY	2D20039
SMART JACKET DUCATI LADY	8D20013
SMART JACKET LS SPORT	201D20040
SMART JACKET HARLEY-DAVIDSON	201D400001
SMART JACKET LADY HARLEY-DAVIDSON	201D400002
SMART JACKET 2.0	201D400006
SMART AIRBAG	201D400007
SMART JACKET LS SPORT 2.0	201D400008
SMART JACKET GUARDIA CIVIL	208D20017
SMART JACKET GUARDIA CIVIL LADY	208D20018

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

Relevant uses: self-inflating safety device for motorcycle riders, 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](mailto:info@dainese.com)

E-mail address of the competent person responsible for SDS matters: [SDS@dainese.com](mailto:SDS@dainese.com)

**1.4 Emergency telephone number**

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

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



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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)

Expl. 1.1, H201 EUH006  
Flam. Sol. 1, H228  
Self-heat. 1, H251  
Water-react. 2, H261  
Ox. Sol. 1, H271  
Press. Gas (Comp.), H280  
Acute Tox. 4, H302 H312  
Eye Irrit. 2, H319  
STOT RE 3, H335  
Carc. 1B, H350

Additional information  
None.



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## 2.2 Label elements

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

### Hazard pictograms



GHS01



GHS02



GHS03



GHS04



GHS07



GHS08

### WARNINGS

Danger

#### Hazard statements

H201 Explosive; mass explosion hazard.  
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.  
H302 Harmful if ingested.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H350 May cause cancer.

#### 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.  
P235 + P410 Keep cool. Protect from sunlight.  
P250 Avoid abrasions/shocks/.../and friction.  
P261 Do not breathe dust/fume/gas/mist/vapours/spray.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302 + P352 IF ON SKIN: wash with plenty of soap and water.



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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.  
P337 + P313 If eye irritation persists: get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry chemical for extinction.  
P370 + P380 In case of fire: evacuate area.  
P371 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. P402 Store in a dry place.  
P372 Explosion risk in case of fire.  
P373 DO NOT fight fire when fires reaches explosives.  
P401 Store in accordance with local/regional/national/international regulation.  
P402 Store in a dry place.  
P403 Store in a well-ventilated place.  
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)**

EUH006 Explosive with or without contact with air.

**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.



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**SECTION 3: COMPOSITION / INFORMATION ON THE INGREDIENTS**

**3.1 Substances**

Not applicable.

**3.2 Mixtures**

Product identifier	Concentration (by weight)	Name	Classification in accordance with Regulation (EC) no. 1272/2008 (CLP)
CAS number 7440-37-1 EC number 231-147-0 Index number / REACH registration number /	0,395% – 0,878%	Argon	Press. Gas (Comp.) H280
CAS number 556-88-7 EC number 209-143-5 Index number / REACH registration number 01-2119489412-35-XXXX	0,008% – 0,018%	1-nitroguadinine	Expl. 1.1 H201 EUH006
CAS number 7757-79-1 EC number 231-818-8 Index number / REACH registration number 01-2119488224-35-XXXX	0,008% – 0,018%	Potassium nitrate	Ox. Sol. 3 H272
CAS number 4418-61-5 EC number 224-581-7 Index number / REACH registration number 01-2120770237-52-XXXX	0,005% – 0,011%	5-aminotetrazole	Eye Damage 1 H318  Aquatic Chronic 3 H412



**SAFETY DATA SHEET**  
Regulation (EC) n. 1907/2006

Version 2  
Revision date: 15/06/2023

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CAS number 7778-74-7 EC number 231-912-9 Index number 7778-74-7 REACH registration number 01-2120764842-47-XXXX	0,004% – 0,01%	Potassium perchlorate	Ox. Sol. 1 H271  Acute Tox. 4 H302
CAS number 7440-67-7 EC number 231-176-9 Index number 040-001-00-3 REACH registration number 01-2119490102-49-XXXX	0,003% – 0,007%	Zirconium	Self-heat. 1 H251
CAS number 7440-59-7 EC number 231-168-5 Index number / REACH registration number /	0,001% – 0,003%	Helium	Press. Gas (Comp.) H280
CAS number 7440-44-0 EC number 231-153-3 Index number / REACH registration number /	Unavailable	Coal	Eye Irrit. 2 H319  STOT RE 3 H335
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
CAS number 7440-50-8 EC number 231-159-6 Index number / REACH registration number 01-2119480154-42-XXXX	Unavailable	Copper	/



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CAS number 1120-71-4 EC number 214-317-9 Index number 016-032-00-3 REACH registration number /	Unavailable	1,3- propanesultone	Acute Tox. 4 H302  Acute Tox. 4 H312  Carc. 1B H350
For full text of Hazard- and EU Hazard-statements: see SECTION 16.			

#### SECTION 4: FIRST AID MEASURES

##### 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.



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**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.

**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.





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**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.

**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.



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<b>10.4</b>	<b>Conditions to avoid</b> Avoid exposure of the product to corrosive conditions, heat, flames and sparks.
<b>10.5</b>	<b>Incompatible materials</b> None, in addition to those indicated in subsection 10.1.
<b>10.6</b>	<b>Hazardous decomposition products</b> 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.

#### SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects</b> There are no adverse toxicological effects related to the use of this product when complying with the recommendations provided in the instructions for use.
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#### SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b>	<b>Toxicity</b> No information available.
<b>12.2</b>	<b>Persistence and degradability</b> No information available.
<b>12.3</b>	<b>Bioaccumulative potential</b> No information available.
<b>12.4</b>	<b>Mobility in soil</b> No information available.
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b> No information available.
<b>12.6</b>	<b>Other adverse effects</b> No information available.

#### SECTION 13: DISPOSAL CONSIDERATIONS



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**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.

**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.



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**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)**

Marine pollutant: no

**Transport by air (ICAO TI –IATA DGR)**

Hazardous to the environment: no

**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**



**Product name: SMART JACKET**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
For the purposes of Regulation (EC) no. 1272/2008 (CLP), the product is an explosive article, as it is an object containing one or more explosive substances or mixtures (points 2.1.1.1. and 2.1.1.2. of Annex I of the Regulation); consequently, pursuant to Article 4, paragraph 8 of the Regulation, the article is classified, labelled and packaged in accordance with the provisions applicable to the substances and mixtures before being placed on the market.

**15.2 Chemical Safety Assessment**  
No chemical safety assessment has been carried out.

## **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**

H201 Explosive; mass explosion hazard.

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.



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H280 Contains gas under pressure; may explode if heated.  
H302 Harmful if ingested.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H350 May cause cancer.  
EUH006 Explosive with or without contact with air.  
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.  
P235 + P410 Keep cool. Protect from sunlight.  
P250 Avoid abrasions/shocks/.../and friction.  
P261 Do not breathe dust/fume/gas/mist/vapours/spray.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician.  
P302 + P352 IF ON SKIN: wash with plenty of soap and water.  
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.  
P337 + P313 If eye irritation persists: get medical advice/attention.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use ... for extinction.  
P370 + P380 In case of fire: evacuate area.  
P371 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. P402 Store in a dry place.  
P372 Explosion risk in case of fire.  
P373 DO NOT fight fire when fires reaches explosives.  
P401 Store in accordance with local/regional/national/international regulation.  
P402 Store in a dry place.  
P403 Store in a well-ventilated place.  
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.