



MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and
Regulation (EC) No 1272/2008 (CLP)

Date of issue:	16. 12. 2016	Page: 1 / 7
Revision date:	12. 2. 2018	
Product name:	Evacuation suit	

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifier	
	Trade name:	Evacuation suit.
	Substance/mixture:	Mixture (infused in special evacuation suit).
1.2	Product Use:	
	Recommended use	Extinguishing agent (infused in special evacuation suit)
	Restrictions of use	It must not be used for other purposes than those referred to in Section 1.
1.3	Details of the supplier of the safety data sheet:	
	<i>Manufacturer identification:</i>	
	Company name:	NANO TECHNOLOGI CZ s.r.o.
	Address:	Václavské náměstí 808/66 110 00 Praha 1 Czech Republic
	Telephone:	+420 491470662
	Fax:	+420 491470668
	E-mail:	paar@nanotechnologi.com
	Web:	www.nanotechnologi.com
	Information about safety data sheet:	paar@nanotechnologi.com
1.4	Emergency telephone number:	Toxicological information centre, Na Bojišti 1, 128 08 Praha 2, tel: (24 hours/day) +420 2 2491 9293, +420 2 2491 5402.

SECTION 2 - HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture:	The classification of the mixture according to Directive 1999/45/EC. The mixture is not classified as dangerous according to Directive 67/548/EEC Full text of clarification and H-Phrases is given in section 16.
	The most important adverse physicochemical effects:	Unknown.
	The most important adverse effects on human health:	Unknown.
	The most important adverse environmental effects:	Unknown.
2.2	Label elements:	
	Hazards pictograms:	Not defined.
	Signal word:	Not defined.
	Precautionary statements:	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P103: Read label before use. P270: Do not eat, drink or smoke when using this product. P314: Get medical advice/attention if you feel unwell. P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.



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		<p>P302+352: IF ON SKIN: Wash with plenty of water.</p> <p>P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p>
2.3	Other hazards:	Does not contain substances accomplishing the criteria for PBT or vPvB substances in accordance with the attachment VIII, Regulation (EC) No 1907/2006 (REACH).

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.2	Chemical characteristics:	This product is pH neutral and contain no toxic components. This product is a proprietary blend. Physician information will be provided as needed.
	Mixture contents these hazardous substances an substances with the highest permissible concentration in the working environment:	None.

SECTION 4 - FIRST AID MEASURES

4.1	Description of first aid measures:	If not feeling well or in doubt, seek medical advice. Provide information from this safety data sheet or have product container or label at hand.
	Inhalation:	Stop the exposition. Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
	Skin contact:	Take off contaminated clothing. Rinse skin with soap and plenty of water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.
	Eye contact:	Rinse immediately cautiously with water for at least 15 minutes. In all cases of doubt, or when symptoms persist, seek medical advice. Do not try to neutralize with chemical substances.
	Ingestion:	If the person is conscious and can swallow, give two glasses of water to drink. Never give anything by mouth to an unconscious person or convulsing. If symptoms persist contact medical service. Bring the original cover or the safety data sheet. Induce vomiting only upon the recommendation of the medical staff.
4.2	Most important symptoms and effects, both acute and delayed:	
	Inhalation:	Airways irritation, discomfort in nose and throat.
	Skin contact:	Can cause dry skin. No other symptoms are expected after a short exposure.
	Eye contact:	May cause irritation, redness, and burning.
	Ingestion :	My cause stomach discomfort, dizziness, and diarrhoea.
4.3	Indication of any immediate medical attention and special treatment needed:	Symptomatic treatment.
	More information:	
	The deterioration of the health status of exposure:	There is no evidence that this product aggravates an existing medical condition.

SECTION 5 - FIREFIGHT MEASURES

5.1	Extinguishing media:	
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	Suitable extinguishing media:	The mixture is an extinguishing agent.
	Non-suitable extinguishing media:	Not stated.
5.2	Special hazards arising from the substance or mixture:	Not stated.
5.3	Advice for firefighters:	Not stated.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures:	Avoid inhalation and contact with eyes. Follow the instructions in sections 7 and 8 of this safety data sheet.
6.2	Environmental precautions:	Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.
6.3	Methods and material for containment and cleaning up:	The material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the mixture, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the mixture, wash the contaminated site with plenty of water or another suitable cleaning material. Spill will result in slippery surface conditions.
6.4	Reference to other sections:	Follow the instructions in sections 7, 8 and 13 of this safety data sheet.

SECTION 7 - HANDLING AND STORAGE

7.1	Precautions for safe handling:	Do not eat or drink while using. Avoid eye contact. Have running water for rinsing eyes at hand. Avoid contact with electricity and electrical machines and equipment. Protect electrical cables from water and electrical fires.
7.2	Conditions for safe storage, including any incompatibilities:	Maximum storage temperature: 50 °C Minimum storage temperature: -15 °C Protect from direct sunlight. Keep the cover tightly closed. Shelf life: 5 years.
7.3	Specific end use(s):	Not stated.

SECTION 8 - EXPOSURE CONTROL/ PERSONAL PROTECTION

8.1	Control parameters:	None.
8.2	Exposure controls:	Follow common principles of health protection.
	Eye and face protection:	Avoid eye contact. Use protective glasses. In the event of fire it is recommended to use the emergency evacuation mask first.
	Skin protection:	Contaminated skin should be washed thoroughly with soap and water. Contaminated clothing should be laundered or dry-cleaned.
	Respiratory protection:	If necessary, use proper respiratory protection.
	Thermal hazard:	Not available.
	Restriction of the environmental exposure:	Observe usual measures for protection of the environment, see Section 6.2.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties:	Information about the solution (infused into the evacuation suit).
	Appearance:	
	Physical state:	Liquid at 20 °C.
	Colour:	Red.
	Odour:	Mild, pleasant.
	Odour threshold:	Data not available.
	pH value:	7,4 – 8,4
	Melting point / melting range (°C):	-40 °C
	Boiling point / boiling range (°C):	100°C
	Flash point (°C):	Data not available.
	Evaporation rate:	The same as water has.
	Flammability:	Data not available.
	Explosion limit:	Data not available.
	Vapour pressure:	Data not available.
	Vapour density:	Data not available.
	Relative density:	Data not available.
	Solubility:	
	- in water:	Data not available.
	- in oil:	Data not available.
	- in organic solvents:	Data not available.
	Distributing coefficient n-octanol/water:	Data not available.
	Auto-ignition temperature:	Data not available.
	Decomposition temperature:	Data not available.
	Kinematic viscosity:	Data not available.
	Explosive properties:	Data not available.
	Oxidizing properties:	Data not available.
9.2	Other information:	
	Density:	1,041 g/cm ³
	Ignition temperature:	Data not available.

SECTION 10 - STABILITY AND REACTIVITY

10.1	Reactivity:	Not stated.
10.2	Chemical stability:	Stable under normal conditions.
10.3	Possibility of hazardous reactions:	Not stated.
10.4	Conditions to avoid:	Strong oxidizing agents.
10.5	Incompatible materials:	Strong oxidizing agents.
10.6	Hazardous decomposition products:	Not known.



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SECTION 11 - TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects:	No toxicological data is available for the mixture.
	Acute toxicity:	Based on available data, the classification criteria are not accomplished.
	Irritating:	Based on available data, the classification criteria are not accomplished.
	Corrosiveness:	Based on available data, the classification criteria are not accomplished.
	Sensitization:	Based on available data, the classification criteria are not accomplished.
	Toxicity after repeated dose:	Based on available data, the classification criteria are not accomplished.
	Carcinogenicity:	Based on available data, the classification criteria are not accomplished.
	Mutagenicity:	Based on available data, the classification criteria are not accomplished.
	Reproductive toxicity:	Based on available data, the classification criteria are not accomplished.
	Information about probable ways of exposure:	<p><u>Eye contact:</u> May cause irritation.</p> <p><u>Skin contact:</u> No other effect than dryness are known after a short exposure.</p> <p><u>Inhalation:</u> If an unpleasant feeling in nose and throat occurs due to hot fumes, provide fresh air.</p> <p><u>Ingestion:</u> Can cause stomach problems, dizziness and diarrhoea.</p>

SECTION 12 - ECOLOGICAL INFORMATION

12.1	Toxicity:	Data for the mixture are not available.
12.2	Persistence and degradability:	Not stated.
12.3	Bioaccumulative potential:	Not stated.
12.4	Mobility in soil:	Not stated.
12.5	Results of PBT and vPvB assessment:	Does not contain substances accomplishing the criteria for PBT or vPvB substances in accordance with the attachment VIII, Regulation (EC) No 1907/2006 (REACH).
12.6	Other adverse effects:	Do not spill into sewerage or waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods:	
	Dangerous treatment:	Hazard of environmental contamination. Remove in accordance with local and national regulations.
	Appropriate methods of disposal:	Proceed in accordance with valid regulations laying down the disposal of waste. Any unused product and contaminated packaging should be put in labeled containers for waste collection and submitted for disposal to an authorized person for waste removal (specialized company) authorized for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.



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Legal regulations regarding waste:	Council Directive 75/442/EEC on waste, at last amended. Council Directive 91/689/EEC on hazardous waste, as last amended. Decision 94/3/EC establishing a list of wastes, as last amended.
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SECTION 14 – TRANSPORT INFORMATION

The product is not classified as dangerous in terms of shipping (ADR/RID, IMDG, ICAO/IATA).

14.1	UN number:	Not available.
14.2	UN proper shipping name:	Not available.
14.3	Transport hazard class:	Not available.
14.4	Packing group:	Not available.
14.5	Environmental hazards:	Not available.
14.6	Special precautions for user:	See sections 4 – 8.
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code :	Not available.

SECTION 15 – REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll. on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination an implementation of certain other provisions of the Air Protection Act as amended. The Act. No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.
15.2	Chemical safety assessment:	Not available.

SECTION 16 - OTHER INFORMATION

Guidelines for safe handling used in the safety data sheet:	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.
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		<p>P103: Read label before use.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P314: Get medical advice/attention if you feel unwell.</p> <p>P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+352: IF ON SKIN: Wash with plenty of water.</p> <p>P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.</p>
	Abbreviations used:	<p>ADR - Accord Dangereuses Route - European Agreement on international shipping of dangerous items</p> <p>CLP – Classification, labelling and packaging of substances and mixtures (EC) No. 1272/2008</p> <p>IATA – The International Air Transport Association</p> <p>ICAO - International Civil Aviation Organization</p> <p>IMDG - International Maritime Dangerous Goods</p> <p>PBT – Persistent, bioaccumulative and toxic substances</p> <p>REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals (EC) No. 1907/2006</p> <p>RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.</p> <p>TSCA - The Toxic Substances Control Act</p> <p>vPvB – very persistent and very bioaccumulative</p>
	Training guidelines:	<p>Inform the user about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the mixture.</p>
	The changes:	<p>This revision replaces the version of safety data sheet from 16. 12. 2016. Changes were made in sections 2, 12, 15 and 16.</p>
	Other important information:	<p>The product must not be used for purposes other than stated in Section 1.</p> <p>The user is responsible for observing all applicable rules.</p> <p>Information in the safety data sheet is compiled as correct and full in accordance with the best available knowledge. The information is compiled in good faith, but without guarantee. Various factors can influence the properties under specific conditions. It is responsibility of the product user to evaluate applicability of the information for each application.</p> <p>The producer shall not be liable or responsible for any loss or damage, whether direct, indirect, incidental, special or consequential arising out of the sale, use or misuse of the products, or the user's inability to use such products.</p>