

Printing date 30.08.2017 Version number 33 Revision: 27.07.2017

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: Class S6a Gun
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against building chemistry
- · Application of the substance / the mixture Assembly foam
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Selena Nantong Building Materials Co.,Ltd.

No. 93-8, Tongda Rd,

Nantong NETDA area Jiangsu Province, China.

Tel. +86 513 85982080

- · Further information obtainable from: info@selenachina.cn
- · 1.4 Emergency telephone number: phone: +86 513 85982080

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



### GHS08 health hazard

Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2	H351	Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



## GHS09 environment

Aqualic Acute 1	11400	very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects

<b>(!)</b>	GHS07
\ \ \ \	*

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
Lact.	H362	May cause harm to breast-fed children.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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## · Hazard pictograms









GHS07

### Signal word Danger

### · Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomers and homologues chlorinated paraffins, C14-17

#### Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

Suspected of causing cancer. H351

May cause harm to breast-fed children. H362

H335 May cause respiratory irritation.

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

H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe gas.

P263 Avoid contact during pregnancy/while nursing. P271 Use only outdoors or in a well-ventilated area.

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

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

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### Additional information:

Do not pierce or burn, even after use.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Do not spray on an open flame or other ignition source.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

EUH204 Contains isocyanates. May produce an allergic reaction.

#### · 2.3 Other hazards

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.



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## **SECTION 3: Composition/information on ingredients**

- · 3.2 Chemical characterisation: Mixtures
- · **Description:** Mixture: consisting of the following components.

Dangerous components:		
CAS: 9016-87-9 EC number: 618-498-9	diphenylmethanediisocyanate, isomers and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	< 30.0%
CAS: 85535-85-9 EINECS: 287-477-0 Reg.nr.: 01-2119519269-33-xxxx	chlorinated paraffins, C14-17  Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	< 55.0%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-31-xxxx	butane  Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-21194869440-21-xxxx	propane Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37-0001	dimethyl ether  Flam. Gas 1, H220; Press. Gas C, H280	< 15.0%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· After skin contact:

Remove uncured foam using a piece of cloth and an unagressive solvent, e.g. ethanol. Wash your hands and the cleaned skin surface using soapy water. Cured foam can be removed mechanically with the use of a brush, soap and plenty of water. Use protective cream after skin surface has been cleaned.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Carbon dioxide.

Fire-extinguishing powder.

Foam.

Water spray.

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Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information Cool endangered receptacles with water spray.

### **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Wear protective clothing.

Do not breathe gas / fumes / vapour / spray.

Ensure adequate ventilation.

- · 6.2 Environmental precautions: Do not allow to enter sewers / surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Uncured foam adheres easily, hence it should be removed with caution. Remove instantly using a piece of cloth and solvents, e.g. acetone, alcohol. Remove cured foam mechanically.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

• 6.4 Reference to other sections See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

## · 7.1 Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace.

Open and handle receptacle with care.

Do not pierce or burn even after use. Use only as directed on the label.

Do not mix with any other chemical products.

## · Information about fire - and explosion protection:

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### · 7.2 Conditions for safe storage, including any incompatibilities

Storage:

#### · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

This product is subject to regulations governing the storage of highly flammable aerosol products.

Storage rooms should be equipped with heat and smoke detectors.

Electrical equipment should be explosion-proof.

#### Information about storage in one common storage facility:

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from reducing agents.

Store away from oxidising agents.

Store away from foodstuffs.

Store away from plastic, rubber, aluminum, light-metals.

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· Further information about storage conditions:

Store receptacle in a well ventilated area.

Store in vertical position in closed original containers.

Store at temperature from +5°C to +30°C.

Protect from frost.

Store under lock and key and out of the reach of children.

Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.

_		limit values that require monitoring at the workplace:	
CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues			
	L Short-term value: 0.07 mg/m³		
	g-term va ; as -NC(	llue: 0.02 mg/m³	
	•		
	-	-methylenediphenyl diisocyanate alue: 0.07 mg/m³	
		ilue: 0.02 mg/m³	
	; as -NC		
CAS: 106	97-8 but	ane	
WEL Sho	rt-term va	alue: 1810 mg/m³, 750 ppm	
		llue: 1450 mg/m³, 600 ppm	
	•	than 0.1% of buta-1.3-diene)	
		ethyl ether	
		alue: 958 mg/m³, 500 ppm	
	g-term va	llue: 766 mg/m³, 400 ppm	
DNELs			
CAS: 901	6-87-9 di	phenylmethanediisocyanate, isomers and homologues	
Oral	DNEL 2	0 mg/kg/day (General population, consumers)	
Dermal	DNEL	.05 mg/kg/day (General population, consumers)	
Inhalative	DNEL	.05 mg/m3 (General population, consumers)	
		.05 mg/m3 (Workers)	
CAS: 855	35-85-9 c	hlorinated paraffins, C14-17	
Oral		.115 mg/kg/day (General population, consumers)	
Dermal		.75 mg/kg/day (General population, consumers)	
		1.5 mg/kg/day (Workers)	
Inhalative	DNEL	.4 mg/m3 (General population, consumers)	
	1	.6 mg/m3 (Workers)	
		ethyl ether	
Inhalative		71 mg/m3 (General population, consumers)	
	1	894 mg/m3 (Workers)	
PNECs			
CAS: 901	6-87-9 di	phenylmethanediisocyanate, isomers and homologues	
(freshwate		1 mg/l	
(sea water	,	0.1 mg/l	



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(soil)	1 mg/kg
CAS: 85535-85-9 chlor	rinated paraffins, C14-17
(freshwater)	1 mg/l
(sea water)	0.2 mg/l
(freshwater sediments)	13 mg/kg
(sea water sediments)	2.6 mg/kg
(soil)	20 mg/kg
CAS: 115-10-6 dimeth	yl ether
(freshwater)	0.155 mg/l
(sea water)	0.016 mg/l
(freshwater sediments)	0.681 mg/kg
(sea water sediments)	0.069 mg/kg
(soil)	0.045 mg/kg

- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

### · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

#### EN 374

The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### · Material of gloves

Polyethylene gloves.

Recommended thickness of the material:  $\geq 0.02$  mm.

### · Penetration time of glove material

≥ 10 mir

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye protection:



Tightly sealed goggles

EN 166

· Body protection: Protective work clothing.

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## **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Rapidly curing foam dispensed by gaseous propellant from an

aerosol container

**Colour:** Different according to colouring

· Odour: Characteristic

· Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not applicable, as aerosol

· Flash point: < 0°C (propellant)

· Auto-ignition temperature: > +350 °C (propellant)

• **Explosive properties:** Heating may cause an explosion.

· Explosion limits:

**Lower:** 1,5 Vol % **Upper:** 11,0 Vol %

• Vapour pressure: >500 kPa (in the container) < 1\*10-5 mmHg w 25°C (MDI)

< 1 10-5 mining w 25 0 (MDI)

· **Density at 20°C:** ≤ 1,3 (PMDI) g/cm³

· Solubility in / Miscibility with

water: Insoluble

Reacts with water

• 9.2 Other information No further relevant information available

## **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Strongly reacts with water and other substances containing an active hydrogen atom.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

relevant for classification:
relevant for classification:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Oral LD50 >10000 mg/kg (rat) (OECD401)

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				(Contd. of page 7)
	Dermal	LD50	>9400 mg/kg (rabbit) (OECD402)	
	CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate			
Oral LD50 9200 mg/kg (rat)		9200 mg/kg (rat)		
	Inhalative	LC50/4h	178 mg/l (rat)	

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

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

May cause an allergic skin reaction.

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May cause harm to breast-fed children.

· STOT-single exposure

May cause respiratory irritation.

· STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

## CAS: 85535-85-9 chlorinated paraffins, C14-17

EC50 | >1000mg/l/48h (daphnia) (20%MCCP's) | >1000mg/l/72h (algae) (20%MCCP's)

NOEC >1000 mg/l (algae) (20%MCCP's)

- · 12.2 Persistence and degradability Not biodegradable.
- 12.3 Bioaccumulative potential Does not accumulate in organisms.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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	· Europea	n waste catalogue
Ī	07 02 08*	other still bottoms and reaction residues
Ī	07 02 13	waste plastic
ĺ	15 01 05	composite packaging

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informati	on
· 14.1 UN-Number	On
· ADR, IMDG, IATA	1950
· 14.2 UN proper shipping name · ADR, IMDG, IATA	AEROSOLS
· 14.3 Transport hazard class(es)	
· ADR	
· Class	2 5F Gases.
· Label	2.1
· IMDG, IATA · Class	2 FF Coope
· Class · Label	2 5F Gases. 2.1
· 14.4 Packing group	Not applicable.
14.5 Environmental hazards:	Product contains environmentally hazardous substant chlorinated paraffins, C14-17
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
· EMS Number:	F-D,S-U
14.7 Transport in bulk according to Ann	
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	E0
· Transport category	2
· Remarks:	Exemption from ADR provisions by LQ principal (rule 3 - Inner packaging, max. 1 liter in capacity; ou packaging – max. gross weight of 30kg Inner packaging, max. 1 liter in capacity, based
	common ground and covered with shrink film – max.





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gross weight of 20kg.
Tunnel restriction code: D.

IATA

UN 1950 AEROSOLS, 2.1

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56
- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57
  None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H362 May cause harm to breast-fed children.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

### · Recommended restriction of use

The information stated above is based on current knowledge and applies to the product in the form in which it is used. Data concerning this product is presented in order to fulfill safety requirements and not to guarantee its specific properties.

In cases when application conditions are not subject to manufacturer's control, the responsibility for safe product use and obeying law regulations in particular, lies on the user's side. Information in the appropriate technical data sheet of product.

- · Department issuing SDS: Product safety department.
- · Contact: msds@selena.com
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure – Compressed gas Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2

Lact.: Reproductive toxicity - effects on or via lactation

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

#### · \* Data compared to the previous version altered.

- 1) So far unclassified substance CAS: 13674-84-5 added in pt 3; MDI reclassification.
- 2) Change in classification of compound in pt 2.
- 3) Change in storage temperature in pt 7.
- 4) Pts 11 & 12 enhanced by data for new substances.
- 5) Information about collection of empty containers in 13 pt have been removed.
- 6) Change in pt 15 resulting from compound reclassification.
- 7) CLP classification. Update date: 01.06.2015