

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

GHS Product Identifier	Roadside® Fix-a-Flat®
Chemical Name	Mixture
Trade name	Roadside® Fix-a-Flat®
CAS No.	Mixture
EINECS No.	Mixture
REACH Registration No.	Not available

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

Identified use(s)	Sealant & Inflator for Automotive Tires
Uses advised against	Users are recommended to seek further advice.

1.3 Details of the supplier of the safety data sheet

Company Identification	(North America)	Accessories Marketing, Inc.
	(Europa)	Freightways c/o Access Marketing Europa
Address	(North America)	125 Venture Drive, Suite 210, San Luis Obispo , CA 93401
	(Europa)	Mandenmakerstraat 6, 2222 AX Katwijk Nederlands
Telephone	(North America)	(805) 489-0490
	(Europa)	+31 71 408 0838

Only representative of a non-Community manufacturer

Company Identification	H2 Compliance
Address	Rubicon Building, CIT Campus, Bishopstown, Cork, Ireland
Telephone	+353 21 486 8122
E-Mail (competent person)	mailto:info@h2compliance.com

1.4 Emergency telephone number – ChemTel Inc.

Emergency Phone No. (800) 255-3924 , (813) 248-0585

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

2.1.1 Regulation (EC) No. 1272/2008 (CLP) and GHS Classifications - Hazardous according to Directives 1272/2008/EC and 1907/2006/EC – Compressed dissolved gas, Aspiration hazard 1. Hazardous according to GHS-compliant regulations in Japan, as well as the UN model regulations.

2.1.2 Directive 67/548/EEC & Directive 1999/45/EC - Hazardous according to Directives 67/548/EEC and 1999/45/EC – Harmful

2.2 Label elements**2.2.1 Label elements According to Regulation (EC) No. 1272/2008 (CLP)**

GHS Product Identifiers

Hazard pictogram(s)



Signal word(s)

DANGER

Hazard statement(s)

H280: Contains gas under pressure; may explode if heated.
H304: May be fatal if swallowed and enters airways.

Precautionary statement(s)

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P331: Do NOT induce vomiting.

2.2.2 Label elements

According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol



Risk Phrases

R65: Harmful: may cause lung damage if swallowed.

Safety Phrases

S2: Keep out of the reach of children.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- 2.3 Other hazards OSHA Classification (USA):** Hazardous under OSHA Hazard Communication Standard – Contains gas under pressure; may explode if heated..
- HMIS:** Health– 0, Flammability – 1, Reactivity – 0
- WHMIS Classification (Canada):** Hazardous under WHMIS. Classification A: Compressed Gas.
- (USA/Canada):** Hazardous under GHS.
- H280: Contains gas under pressure; may explode if heated.
- H304: May be fatal if swallowed and enters airways.
- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
- P331: Do NOT induce vomiting.



2.4 Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EC Classification No. 1272/2008/EC (GHS Classification)

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Heavy Aromatic Solvent Naptha	10-50	64742-94-5	265-198-5	NA	3.10/1: H304
Norflurane	10-55	811-97-2	212-377-0	NA	2.5/1: H280
Ammonia	<0.2	7664-41-7	231-635-3	007-001-00-5	2.5/1, 2.6/2, 3.1/3 (Inhalation), 3.2/1B, 4.1/1; H221, H280, H314, H331, H400

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Risk (R) Phras(es)
Heavy Aromatic Solvent Naptha	10-50	64742-94-5	265-198-5	NA	Xn: R65
Norflurane	10-30	811-97-2	212-377-0	NA	None None
Ammonia	<0.2	7664-41-7	231-635-3	007-001-00-5	T, N+;R10, R23, R34, R50

3.3 Additional Information

- For full text of H phrases see section 16. For full text of R phrases see section 16. Non-Hazardous ingredients are not listed and make up the balance of the product.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- Inhalation** Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.
- Skin Contact** Wash exposed areas with soap and warm water. In the event of irritation, seek medical advice.
- Eye Contact** Remove any contact lenses. Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
- Ingestion** Not a likely route of exposure. If swallowed, seek medical advice immediately and show this container or label. **Do not induce vomiting.**

4.2 Most important symptoms and effects, both acute and delayed

Acute: Product is an aspiration hazard if ingested and vomitus enters the lungs which results in aspiration pneumonia..

Delayed and chronic effects: Expected to be similar to acute exposures. Multiple or prolonged contact with skin may result in chemical dermatitis.



- 4.3 Indication of the immediate medical attention and special treatment needed** Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Combustible but not readily ignited. Acrid smoke. Not Sensitive to mechanical impact and static discharge.

Flash Point . Explosive Limits: NA Auto-Ignition Temperatures: NA

- 5.1 Extinguishing media**
Suitable Extinguishing Media Extinguish preferably with dry chemical, foam or waterspray.
Unsuitable Extinguishing Media None known.
- 5.2 Special hazards arising from the substance or mixture** Containers may rupture from exposure to high temperatures, releasing contents that may be slippery.
- 5.3 Advice for fire-fighters** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Extinguish preferably with dry chemical, foam or waterspray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Nitrile gloves are suggested for spill cleanup. Evacuate if necessary. Ensure suitable personal protection (including respiratory protection) during removal of spillages.
- 6.2 Environmental precautions** Environmental hazards cannot be excluded by inappropriate handling or disposal.
- 6.3 Methods and material for containment and cleaning up** Mix spilled product with sand, then shovel up into covered container. For small spills on hard surfaces, allow substance to harden, then scrape up and discard. Do not crush aerosol cans.
- 6.4 Reference to other sections** See Also Section 7, 8, 13.
- 6.5 Additional Information** None

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid ingestion. Avoid skin and eye contact. Use only in well-ventilated areas. Keep away from oxidising agents. Heating of containers may cause pressure rise, with risk of bursting. Do not crush, puncture, or attempt to dismantle aerosol cans.
- 7.2 Conditions for safe storage, including any incompatibilities**
Gases under pressure. Do not use or store near heat or open flame. Do not store and transport with oxidizers etc. Do not crush or puncture cans.
Storage Temperature Ambient.
Storage Life Not available
Incompatible materials Can react violently if in contact with acids, alkalis, reducing agents and heavy metals.
- 7.3 Specific end use(s)** Consult the supplier.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Heavy Aromatic Solvent Naptha	64742-94-5	400	NE	NE	NE	DOW
		NE	NE	NE	NE	OSHA
Norflurane	811-97-2	1000	NE	NE	NE	UK HSE
		1000	NE	NE	NE	Dupont AEL
Ammonia	7664-41-7	20	NE	50	NE	EU OEL
		25	NE	35	NE	ACGIH
		50	NE	NE	NE	OSHA



OELs are not available for non-listed components. AEL – Acceptable Exposure Limit.





8.1.2 Biological limit value

Limit value type (country of origin)	SUBSTANCE.	CAS No.	Biological limit value	Note:
No Biological Limit Values are available for this product				

8.1.3 PNECs and DNELs

No PNECs or DNELs are available for this product. As with all chemical products, users are cautioned to avoid unnecessary exposures.

8.2.2 Personal protection equipment

	Respirators	Usually Not Needed.
	Eye Protection	Safety glasses are suggested as good practice. Not normally required when used according to manufacturer instructions.
	Gloves	Nitrile or neoprene gloves are suggested where skin contact is possible.
	Body protection	Usually Not Needed.
	Engineering Controls	No special controls required.
	Other	Clean contaminated equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Foamy, milky liquid	Colour	White
Odour	Ammonia	Odour Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	No data	Boiling point/boiling range (°C):	30 °F / -1.1°C
Flash Point (°C)	None	Explosive limit ranges	Not available
Auto Ignition Temperature (°C)	Not available	Decomposition Temperature (°C)	Not available
Explosive properties	Not available	Oxidising properties	Not an Oxidizer
Flammability (solid, gas)	Not available	pH (Value)	8.5 -9.5
Evaporation rate	Not available	Vapour Pressure (mm Hg)	77-79 psig @ 20°C
Vapour Density (Air=1)	< 1	Density (g/ml)	0.98
Solubility (Water)	Soluble	Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available	Viscosity (mPa.s)	20 SSU

9.2 Other information Volatile Organic Chemical (VOC) Content: No Data Available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	May react with incompatible materials.
10.2 Chemical stability	Stable under normal conditions. Avoid temperature extremes
10.3 Possibility of hazardous reactions	Can react violently if in contact with acids, alkalis, reducing agents and heavy metals.
10.4 Conditions to avoid	Avoid temperature extremes
10.5 Incompatible materials	Can react violently if in contact with acids, alkalis, reducing agents and heavy metals.
10.6 Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide, Nitrogen Oxides, Sulfur Oxides. Thermal decomposition will evolve toxic, irritant and flammable vapours.



SECTION 11: TOXICOLOGICAL INFORMATION

SUBSTANCE.	CAS No.	LD ₅₀ (Oral, Rat)	LC ₅₀ (Inhalation, Rat)	LD ₅₀ (Dermal, Rat)
Heavy Aromatic Solvent Naptha	64742-94-5	5 ml/ kg	>590 mg/m ³ /4h	>2ml/kg rabbit
Norflurane	811-97-2	NE	567000 ppm / 4 Hours	NE
Ammonia	7664-41-7	NE	2000 ppm / 4 Hours	NE

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity and Exposure Effects	Ingestion	Not a likely route of exposure. Aspiration of droplets may cause pulmonary oedema.
	Inhalation	Aspiration of droplets may cause pulmonary oedema.
	Skin Contact	Repeated exposure may cause skin dryness or cracking.
	Eye Contact	May cause eye irritation.
Irritation		May cause irritation to skin and eyes.
Corrosivity		Not to be expected.
Repeated dose toxicity		Expected to be similar to single exposures. Repeated exposure may cause skin dryness or cracking.
Carcinogenicity		No data.
Mutagenicity		No data.
Toxicity for reproduction		No data.
11.2 Other information		None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	May cause harm to the environment; this harm is generally not expected to be long-term.
12.2 Persistence and degradability	Partially persistent
12.3 Bioaccumulative potential	Particulate material may bioaccumulate.
12.4 Mobility in soil	Variable mobility; dependent upon component.
12.5 Results of PBT and vPvB assessment	No data.
12.6 Other adverse effects	Environmental hazards cannot be excluded by inappropriate handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Containers must not be punctured or destroyed by burning, even when empty.
13.2 Additional Information	None

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID) (b)(c)(d)

UN number	1950
Proper Shipping Name	Aerosols, Non-Flammable
Transport hazard class(es)	2.2
Packing Group	NA
Hazard label(s)	Non-Flammable Gas
Environmental hazards	None
Special precautions for user	None

Sea transport (IMDG) (b)(c)(d)

UN number	1950
Proper Shipping Name	Not classified as dangerous for transport.
Transport hazard class(es)	2.2
Packing Group	NA
Marine Pollutant	None
Special precautions for user	None

Land transport (Within USA) (b)(c)(d)

UN number	1950 (or ORM-D)
Proper Shipping Name	Aerosols, Non-Flammable
Transport hazard class(es)	2.2 or ORM-D
Packing Group	NA
Hazard label(s)	Non-Flammable Gas /ORM-D
Environmental hazards	None
Special precautions for user	None

Air transport (ICAO/IATA) (b)(c) (d)

UN number	1950
Proper Shipping Name	Aerosols, Non-Flammable
Transport hazard class(es)	2.2
Packing Group	NA
Environmental hazards	None
Special precautions for user	None





(b)– Limited Quantity for packages less than 30 kg (66 lb). Consult regulation for inner packing limits.

(c)– Consult with transport provider.

(d)– Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- 15.1.1 EU regulations**
 Authorisations and/or restrictions on use Consult the supplier.
 European Union (EINECS/ELINCS) All chemicals listed
 WGK number 2
- 15.1.2 National regulations**
- USA**
 TSCA (Toxic Substance Control Act) All chemicals listed
 SARA 311/312 - Hazard Categories Acute Health, Pressurized
 SARA 302 - Extremely Hazardous Substances Listed - None
 SARA 313 - Toxic Chemicals Listed - Ammonia (as ammonium hydroxide)
 CERCLA (Comprehensive Environmental Response Compensation and Liability Act) RQ = 1000 lbs. (454 kg) as ammonium hydroxide.
 CAA (Clean Air Act 1990) Listed - None
 CWA (Clean Water Act) Listed - None
 State Right to Know Lists Listed as required.
 Proposition 65 (California) Listed - None
- Canada**
 WHMIS Classification A – Compressed Gas.
 Canada (DSL/NDSL) Listed as required.
 Canada Ingredient Disclosure List (CIDL) Listed as required.
- Japan**
 Japan Fire Service Act Not classified as flammable/combustible, oxidizing, or reactive.
- 15.2 Chemical Safety Assessment**
 Hazardous – Aspiration hazard, Aerosol propellant. May cause irritation to skin and eyes.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

ACGIH	American Conference of Governmental Industrial Hygienists	NA	not applicable, not available
AICS	Australian Inventory of Chemical Substances	NIOSH	National Institute for Occupational Safety and Health
ANSI	American National Standards Institute	ND	not determined
atm	atmosphere (pressure unit)	NFPA	National Fire Prevention Association
BOD	biological oxygen demand	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OC	open cup
CC	closed cup	OSHA	Occupational Safety and Health Administration
CDTA	Chemical Drug and Trafficking Act	Part	partition
COC	Cleveland Open Cup	PEL	permissible exposure limits
COD	chemical oxygen demand	ppb	parts per billion
coeff.	coefficient	PPE	personal protective equipment
CFR	Code of Federal Regulations	ppm	parts per million
CPR	cardio-pulmonary resuscitation	psi	pounds per square inch
DEA	Drug Enforcement Agency	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	RQ	Reportable quantity
DSCL	Dangerous Substances Classification and Labeling	RTK	Right to Know
EEC	European Economic Community	SARA	Superfund Amendments and Reauthorization Act
FDA	Food and Drug Administration	STEL	short-term exposure limit
HMS	Hazardous Materials Information System	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)



Roadside® Fix-a-Flat®

IARC	International Agency for Research on Cancer	TCC	Tagliabue Closed Cup
IDLH	immediate danger to life or health	TDG	Transportation of Dangerous Goods
kg	kilogram	TPQ	threshold planning quantity
L	liter	TQ	threshold quantity
LC50	median lethal concentration	TSCA	Toxic Substances Control Act
LD50	median lethal dose	TWA	time-weighted average
LEL	lower explosive limit	UEL	upper explosive limit
mg	milligram	WES	Workplace Exposure Standard (New Zealand)
mL	milliliter	WHMIS	Workplace Hazardous Material Information System

References: RTECS, CAS Registry, EINECS/ESIS, *Casarett & Doull's Toxicology*, *Goldfrank's Toxicological Emergencies*, Manufacturer Information

Risk Phrases and Safety Phrases

R10: Flammable.
 R23: Toxic by inhalation.
 R34: Causes burns.
 R50: Very toxic to aquatic organisms.
 S2: Keep out of the reach of children.
 S7/9: Keep container tightly closed and in a well-ventilated place.
 S23: Do not breathe gas.
 S24/25: Avoid contact with skin and eyes.
 S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28: After contact with skin, wash immediately with plenty of soap and water.
 S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
 S38: In case of insufficient ventilation, wear suitable respiratory equipment.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S46: If swallowed, seek medical advice immediately and show this container or label.
 S51: Use only in well-ventilated areas.
 S56: Dispose of this material and its container to hazardous or special waste collection point.
 S61: Avoid release to the environment. Refer to special instructions/Safety Data Sheets.
 S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
 S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Hazard statement(s) and Precautionary statement(s)

H221: Flammable gas.
 H280: Contains gas under pressure; may explode if heated.
 H304: May be fatal if swallowed and enters airways.
 H314: Causes severe skin burns and eye damage.
 H331: Toxic if inhaled.
 H400: Very toxic to aquatic life.
 P201: Obtain special instructions before use.
 P210: Keep away from heat, sparks, open flame, hot surfaces - No smoking.
 P260: Do not breathe gas.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264: Wash (hands and exposed skin) thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 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.
 P310: Immediately call a POISON CENTRE or doctor/physician.
 P311: Call a POISON CENTRE or doctor/physician.
 P321: Specific treatment (see on this label).
 P361: Remove/Take off immediately all contaminated clothing.
 P363: Wash contaminated clothing before reuse.
 P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381: Eliminate all ignition sources if safe to do so.
 P403: Store in a well-ventilated place.
 P405: Store locked up.
 P410 + P403: Protect from sunlight. Store in a well-ventilated place.
 P501: Dispose of contents/container to:

Training advice: None

Additional Information: Replaces all previous editions.



Roadside® Fix-a-Flat®

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