SAFETY DATA SHEET

1. IDENTIFICATION

Product number	
Product Identifier	600A
Company Information	Stinger® Foamy Citrus All Purpose Cleaner (Aerosol)
Company phone	STINGER CHEMICAL, LLC 905 LIVE OAK ST HOUSTON, TX 77003 USA
Emergency telephone	
USA	CHEMTREC: 1-800-424-9300 (USA)
Emergency telephone outside USA	CANUTEC: 1-613-996-6666 (CANADA)
Version #	01
Recommended use	Cleanning Compound
Recommended restrictions	None known.

2. Hazard(s) Identification

Physical hazards	Flammable aerosols	Category 1
Health hazards OSHA defined hazards	Sensitization, skin	Category 1
	None classified.	

Label elements

Signal word	Danger
Hazard statement	Extremely flammable aerosol. May cause an allergic skin reaction.
Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing gas. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Response	If on skin: Wash with plenty of waler. Specific treatment (see this label). If skin irritation or rash occurs: Gel medical advice/ attention.Wash contaminated clothing before reuse.
Storage	Protect from sunlighl Do not expose to temperatures exceeding 50"C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/ i nternational regulations.
Hazard(s) not otherwise classified (HNOC)	Not Classified
Environmental hazards	Hazardous to the aquatic environment, acute Category 2 hazard aquatic life. Toxic o aquatic life with longlasting effects. Avoid release to the environmental
Category 2	Hazardous to the aquatic environment, long-term hazard

Supplemental Information

Prevention Collect spillage.

7.51% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 7..51% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environmental

3.Composition/ingredients

Mixtures

Hazardous components Chemical name	Common name and synonyms	CAS number	%
D-Limonene		5989-27-5	2.5 - 10
Propane		74-98-6	2.5 - 10

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-B	1- 2.5

Other components below reportable levels

* Designates that aspecific chemical identity and/or percentage of composition has 90 - 100%

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth.Get medical attention if symptoms occur.

Most Important symptoms/effects, acuteand delayed Direct contact with eyes may cause temporary irritation. May cause allergic skin reaction. Rash.

Indication of Immediate medical attention and special treatment needed Treat symptomatically.

General lnformation Take off all contaminated clothing immediately. Wash contaminated clothing before reuse.Ensure that medical personnel are aware of the material(s) involved,and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder.Carbon dioxide(C02).
Unsuitable extinguishing media	Do not use waterjet as an extinguisher,as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, hazardous gases may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn incase of fire.
Fire-fighting equipment/instructions	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you candosowithout risk. Move the cylinder to a safe and open area if the leak is irreparable. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (nosmoking, flares, sparks, or flames inimmediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unlesswearing appropriate protective clothing.
Precautions for safe handling	Ventilate closed spaces before entering them.
Environmental precautions	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Conditions for safe storage, Including any incompatlbllitles	Never return spills in original containers for re-use.Avoid discharge into drains, water courses or onto theground.

7.Handling and storage

Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not spray on a naked flame or any other incandescent material. Use only in well-ventilated areas. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothing. Pressurized container. Do not pierce or burm,even after use. Do not use if spray button is missing or defective. Do not re-use empty containers. Observe good industrial hygiene practices. Pressurized container. Protect from sunlight and do notexpose totemperatures exceeding
50"C/122 "F. Do not puncture, Incinerate orcrush.Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS). Level 1 Aerosol.

8. Exposure controls/personal protection

Occupational exposure limits

US, OSHA Table Z 1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Propane (CAS 74·98-6)	PEL	1800 mg/m3 1000 ppm

US. NIOSH: Pocket Gulde to Chemical Hazards

Components	Type	Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm
Propane (CAS 74-98-6)	TW A	1800 mg/m3 1000 ppm

Biological limit values — No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls — Explosion-proof general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment. Eye/face protection Wear safety glasses with side shields (or goggles). Hand protection Wear appropriale chemical resistant gloves, Other Wear appropriate chemical resistant clothing.

Respiratory protection — If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards — Wear appropriate thermal protective clothing, when necessary.

General Hygiene Considerations — When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not spray on a naked flame or any other incandescent material. Use only in well-ventilated areas. Provide adequate ventilation. Avoid breathing dust/fume/gas/mist/vapors/ spray. Avoid contact with skin, eyes and clothing. Pressurized container. Do not pierce or burm,even after use. Do not use if spray button is missing or defective. Do not re-use empty containers. Observe good industrial hygiene practices. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50"C/122 "F. Do not puncture, Incinerate or crush. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS). Level 1 Aerosol.

9.Physical and chemical properties

Appearance	Aerosol.
Color	Not available.Gas.
Form	-156.00 "F (-104.44 "C) propellant estimated
Physical state Flash point	Not available.
Melting point/freezing point Odor	Not available.
pH	Not available.
Solubllity(les)	Not available.
Vapor density Vapor pressure Viscosity	47.33 psig @70F estimated
Other Information Specific gravity	Not available.
	0.946 estimated

10.Stability and reactivity

Reactivity Chemical stability	Strong oxidizing agents. Material is stable under normal conditions.
Posslbllity of hazardous	No dangerous reaction known under conditions of normal use.
reactions Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources.
Hazardous decomposition products	Contact with incompatible materials. No hazardous decomposition products are known.

11.Toxicological Information

Information on llkely routes of exposure

Ingestion: Expected to be a low ingestion hazard.

Inhalation: No adverse effects due to inhalation are expected.

Skin contact: May cause an allergic skin reaction.Causes mild skin irritation. Direct contact with eyes

Eye contact: may cause temporary irritation. Direct contact with eyes may cause temporary irritation. May cause allergic skin reaction.

Symptoms related to the physical,chemical and toxicologlcal characteristics

Acute toxicity: Information on toxicological effects

Product expected to be allowed for usual industrial or commercial handeling by trained personnel.

(CAS Mixture)
600A Stinger® Foamy Citrus All Purpose Cleaner

		Species	Test Results
Acute *Dermal*	LD50	Rat	41359.8906 mg/kg, estimated
Inhalation	LC50	Mouse	28936. 1699 *mgn,* 2 Hours, estimated
Oral	LD50	Rat	54447.0547 *mgn,* 15 Minutes, estimated
		Mouse	28000 mg/I,4 Hours, estimated
Other	LD50	Rat	13160 mg/V4h, estimated
		Mouse	88184.0547 mg/kg, estimated
		Rat	7793.7319 g/kg, estimated

Components	Species	
Butane (CAS 106- 97-8)	Mouse	27.3678 g/kg, estimated
	Rat	2.31S7 g/kg, estimated

Acute *Inhalation LC50*		Test Results
D-Limonene (CAS 5989- 27-5)	Rat	680 mg/I, 2 Hours
	Mouse	6S8 mg/I,4 Hours
Acute Dermal	Mouse	2000 mg/kg
	LC50	5600 - 6600 mg/kg
	LC50	1.3 g/kg 0.11 g/kg
Propane (CAS 74-98-6)	Rat	> 1442.847 mg/I,
LD50		15 Minutes 6SB mg/V4h
Acute *Inhalation* LC50	Rat	Not a respiratory sensitizer.

Skin
corrosion/ skin iritation

May cause an allergic skin reaction. Causes mild skin irritation.

Serious eye	Direct contact with eyes may cause temporary irritation.
Carcinogenicity	This product is not considered to be a carcinogen

by IARC, ACGIH, NTP, or OSHA. IARC Monographs. Overall Evaluation of Reproductive toxicity

This productis not expected to cause reproductive or developmental effects.

D-Limonene (CAS 5989-27-5)	Not classifiable as to carcinogenicity to humans.
Carcinogenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic orgenotoxic.
Specific target organ toxicity - single	Not classified.
Specific target organ toxicity - repeated	Nolclassified.
Aspiration hazard	Not an aspiration hazard.

12. Ecological Information

Ecotoxicity

Product	Toxic to aquatic life	Species	Test Results
(CAS Mixture) 600A Stinger® Foamy Citrus All Purpose Cleaner			
		Species	
Algae	IC50	Algae	11415.5254 mglL, 72 Hours, estimated
Crustacea	EC50	Fish	1217.3518 mg L, 48 Hours, estimated
Fish	LC50	Daphnia	3354.3198 mg L, 96 Hours, estimated Test Results

Components

D Limonene (CAS 5989- 27-5)

Fish Aquatic	LC50	Fish	702 mglL, 96 Hours
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l,48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.619- 0796 mgll, 96 hours

Persistence and degradablllty	No data is available on the degradability of this product.
Bioaccumulatlve potential	Nodata avaiable.

Partition coefficient n-octanol *I* water (log Kow)

Propane	2.36
Butane	2.89
Limonene	4.232
Mobility In soil	No data available

Other adverse effects	No other adverse environmental effects (e.g.ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component

13.Disposal considerations

Disposal Instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues of unused products	Dispose of In accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue,follow label warnings even after containeris emptied.

14.Transportation

DOT UN number UN1950

UN proper shipping name
Aerosols, flammable Transport hazard class(es) 2.1

Subsidiary class(es)	Not available.
Packing group	Not available.

Special precautions for user. Read safety instructions, SOS and emergency procedures before handling.

Labels required none
Special provisions NB2

Packaging exceptions 306
Packaging non bulk None
Packaging bulk None
This product meets the exceplion requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12131/2020, the "Consumer Commodity - ORM-0" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12131/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number UN1950
UN proper shipping name Aerosols, flammable Transport hazard class(es) 2.1

Subsidiary class(ea) Not Available
Packaging group 2.1

Environmental hazards
Labels required Not available.

ERG Code
Special precautions for user Read safety instructions, SOS and emergency procedures before handling.

Packaging Exceptions LTD QTY

IMDG

Transport name
UN number UN1950
UN proper shipping AEROSOLS, MARINEPOLLUTANT

hazard class(es) 2.1
Subsidiary class(es)
Packaging group Not available.

Environmental hazards Not available.

Marine pollutant Yes
Labels required non

Ems
Special precautions for user Read safety instructions, SOS and emergency procedures before handling.

Packaging Exceptions LTD QTY Not applicable.

Transportin bulk according to
Annex IIof MARPOL 73178
and the IBC Code

DOT

IATA; IMDG

Marina pollutant

15. Regulatory Information

US, OSHA Specified Regulated Substances (29 CFR 1910.1001-1050) Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - No

Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

SARA 302 Extremely hazardous substance: No

SARA 311/312 Hazardous chemical: No

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA): Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.021b) and 1310.041f)(2) and Chemical Code Number

Not listed.

Food and Drug Administration (FDA): Not regulated.

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8)	500 lbs
Propane (CAS 74-98-6)	500 lbs

US. Pennsylvania RTK - Hazardous Substances Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the Slate of California to cause cancer.

International Inventories

Country(a) or region	United States & Puerto Rico
Australia	Australian Inventory of Chemical Substances (AICS)
Canada	Domestic Substances List (DSL)
Canada	Non-Domestic Substances List (NDSL)
China	Inventory of Existing Chemical Substances in China (IECSC)
Europe	European Inventory of Existing Commercial
Europe	
Japan	
Korea	
New Zealand	
Philippines	

Chemical Substances (EINECS) On Inventory (yes/no)*	Yes
European List of Notified Chemical Substances	No
(ELINCS) Inventory of Existing and New Chemical Substances (ENCS)	Yes
Existing Chemicals List (ECL)	No
New ZealandInventory	No
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Toxic Substances Control Act (TSCA) Inventory	No
	No

*
A "Yes• indicates this product complies with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the govemtng country(s).

16.Other information

Issue date	04/16/2015
Version	01
Further Information	Not available.

DISCLAIMER

The information in the sheet was written based onlhe best knowledge and experience currently available. The information provided inthis Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.The information given is designed only as aguidance for safe handling, use, processing, slorage, transportation, disposal and release andis not to be considered a warranty or quality specificati on. The information relates only to the specific material designated and may not be valid for such material usedin combination with any other materials or in any process, unless specified in the text.