



Material Safety Data Sheet

Issuing Date: 24-May-2012

Revision Date: 31-May-2012

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID:	99303395
Product Name	Pantene Pro-V Stylers Shaping Hairspray Extra Strong Hold
Recommended use	Personal Beauty Care Product
Uses advised against	All other uses
Synonyms	No information available
Manufacturer	The Procter & Gamble Company Sharon Woods Innovation Center 11510 Reed Hartman Highway Cincinnati OH 45202
E-mail Address	pgsds.im@pg.com
Emergency telephone	Transportation (24 HR) CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 01-800-681-9531

2. HAZARDS IDENTIFICATION

Emergency Overview

Extremely flammable

OSHA Regulatory Status	Consumer Products as defined by the U.S. Consumer Product Safety Act which are used as intended (typical consumer duration and frequency) are exempt from the OSHA Hazard Communication Standard
WHMIS	Not subject to WHMIS classification
Principle Routes of Exposure	Eye contact. Skin contact. Inhalation.
General Hazards	This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Ethanol	64-17-5	30 - 60
Ethane, 1,1-difluoro-	75-37-6	30 - 60
n-Butanol (Butyl alcohol)	71-36-3	0.1 - 1
1,2,3-Propanetriol	56-81-5	0.1 - 1
2-Methylpropan-2-ol	75-65-0	< 0.1

4. FIRST AID MEASURES

General advice	No hazards which require special first aid measures. When symptoms persist or in all cases of doubt seek medical advice.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
Skin contact	If skin problems occur, discontinue use. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water.
Inhalation	Move to fresh air.
Protection of First-aiders	Remove all sources of ignition.
Most important symptoms/effects, acute and delayed	None known.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Non-household: Extremely flammable aerosol.
Flash Point	Aerosol - Not applicable
Suitable Extinguishing Media	Dry chemical, CO ₂ , water spray or alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available.
Special Hazard	The release of the following substances is possible in a fire: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke) Nitrous oxides Containers may explode when heated Hazardous decomposition products formed under fire conditions.
Special protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.
Advice for emergency responders	Use personal protective equipment.
Environmental precautions	Should not be released into the environment.
Methods for Containment	No information available.
Methods for Cleaning up	No information available.

7. HANDLING AND STORAGE

Advice on safe handling	Keep out of the reach of children. Observe label precautions. Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors or mists.
Technical measures/Storage conditions	Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³	Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m ³
n-Butanol (Butyl alcohol)	TWA: 20 ppm	TWA: 100 ppm TWA: 300 mg/m ³ (vacated) S* (vacated) Ceiling: 50 ppm (vacated) Ceiling: 150 mg/m ³	IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m ³	Mexico: Ceiling 50 ppm Mexico: Ceiling 150 mg/m ³
1,2,3-Propanetriol	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction		Mexico: TWA 10 mg/m ³
2-Methylpropan-2-ol	TWA: 100 ppm	TWA: 100 ppm TWA: 300 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 300 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 450 mg/m ³	IDLH: 1600 ppm TWA: 100 ppm TWA: 300 mg/m ³ STEL: 150 ppm STEL: 450 mg/m ³	Mexico: TWA 100 ppm Mexico: TWA 300 mg/m ³ Mexico: STEL 150 ppm Mexico: STEL 450 mg/m ³
Chemical Name	British Columbia	Alberta	Quebec	Ontario TWA EV
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1880 mg/m ³	TWA: 1000 ppm TWA: 1880 mg/m ³	STEL: 1000 ppm
n-Butanol (Butyl alcohol)	TWA: 15 ppm Ceiling: 30 ppm	TWA: 20 ppm TWA: 60 mg/m ³	Ceiling: 50 ppm Ceiling: 152 mg/m ³ Skin	TWA: 20 ppm
1,2,3-Propanetriol	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³

2-Methylpropan-2-ol	TWA: 100 ppm	TWA: 100 ppm TWA: 303 mg/m ³	TWA: 100 ppm TWA: 303 mg/m ³	TWA: 100 ppm STEL: 150 ppm
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Engineering Measures Not applicable.

Personal Protective Equipment

Eye Protection No special protective equipment required.

Hand Protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection Avoid breathing vapors, mist or gas.

Thermal hazards Not applicable.

Hygiene measures Avoid breathing vapors, mist or gas. When using, do not eat, drink or smoke.

Environmental Exposure Controls No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C Aerosol, liquid
Appearance Aerosol Container - Liquid.
Odor Pleasant

<u>Property</u>	<u>Values</u>	<u>Note</u>
pH VALUE	5.2 - 6	
Melting/freezing point	Not applicable	
Boiling point/boiling range	No information available	
Flash Point	Aerosol - Not applicable	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
upper flammability limit	No information available	
lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	0.95 - 0.97	
Water solubility	soluble	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	.
Decomposition temperature	No information available	.
Viscosity of Product	No information available	
Bulk Density	No information available	

<u>Chemical Name</u>	<u>log Pow</u>
Ethanol	-0.32
n-Butanol (Butyl alcohol)	0.785
1,2,3-Propanetriol	-1.76
2-Methylpropan-2-ol	0.35

VOC Content Products comply with US state and federal regulations for VOC content in consumer products.

10. STABILITY AND REACTIVITY

Reactivity	None under normal use conditions.
Stability	Stable under normal conditions.
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.
Materials to Avoid	Strong oxidizing agents.
Hazardous Decomposition Products	None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute Toxicity

Principle Routes of Exposure	Eye contact. Skin contact. Inhalation.
Inhalation	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	7060 mg/kg (Rat)	-	124.7 mg/L (Rat) 4 h
n-Butanol (Butyl alcohol)	790 mg/kg (Rat)	3400 mg/kg (Rabbit)	17.7 mg/L (Rat) 4 h 8000 ppm (Rat) 4 h
1,2,3-Propanetriol	4090.00 mg/kg (rat)	21900 mg/kg (Rat)	-
2-Methylpropan-2-ol	2733 mg/kg (Rat)	2000 mg/kg (Rabbit)	9700 ppm (Rat) 4 h

Chronic Toxicity

Corrosivity	No known effect.
Sensitization	No known effect.
Neurological Effects	No known effect.
Reproductive Toxicity	The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.
Mutagenic Effects	There are no known mutagenic chemicals in this product.
Developmental Toxicity	No known effect.
Teratogenicity	No known effect.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates	Toxicity to other organisms
Ethanol	-	LC50 96 h 12.0 - 16.0 mL/L Oncorhynchus mykiss static LC50 96 h > 100 mg/L Pimephales promelas static LC50 96 h 13400 - 15100 mg/L Pimephales promelas flow-through	-	LC50 48 h 9268 - 14221 mg/L Daphnia magna EC50 24 h = 10800 mg/L Daphnia magna EC50 48 h = 2 mg/L Daphnia magna Static	-
n-Butanol (Butyl alcohol)	EC50 96 h > 500 mg/L Desmodesmus subspicatus EC50 72 h > 500 mg/L Desmodesmus subspicatus	LC50 96 h 1730 - 1910 mg/L Pimephales promelas static LC50 96 h = 1740 mg/L Pimephales promelas flow-through LC50 96 h 100000 - 500000 µg/L Lepomis macrochirus static LC50 96 h = 1910000 µg/L Pimephales promelas static	-	EC50 48 h = 1983 mg/L Daphnia magna EC50 48 h 1897 - 2072 mg/L Daphnia magna Static > 500 mg/L EC50	-
1,2,3-Propanetriol	-	LC50 96 h 51 - 57 mL/L Oncorhynchus mykiss static	-	EC50 24 h > 500 mg/L Daphnia magna	-
2-Methylpropan-2-ol	EC50 72 h > 1000 mg/L Desmodesmus subspicatus	LC50 96 h 6130 - 6700 mg/L Pimephales promelas flow-through	-	EC50 48 h = 933 mg/L Daphnia magna EC50 48 h 4607 - 6577 mg/L Daphnia magna Static > 1000 mg/L EC50	-

Persistence and degradability No information available.

Bioaccumulative potential .

Chemical Name	Bioconcentration factor (BCF)
n-Butanol (Butyl alcohol)	0.64
2-Methylpropan-2-ol	1.09

Mobility No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

Other disposal recommendations **Non-household:** Products covered by this MSDS, in their original form, when disposed as waste, are ignitable hazardous waste, D001, according to Federal RCRA regulations(40 CFR 261). Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some States because of their potential to explode when heated. Check with your State environmental agency for guidance.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
n-Butanol (Butyl alcohol)	-	Included in waste stream: F039	-	U031

California Hazardous Waste Codes 331
(non-household setting)

14. TRANSPORT INFORMATION**DOT**

UN/ID No UN1950
Proper shipping name Aerosols, flammable
Hazard class 2.1
Description UN1950, Aerosols, flammable, 2.1
Emergency Response Guide Number 126

TDG

UN/ID No UN1950
Proper shipping name Aerosols
Hazard class 2.1
Description UN1950, Aerosols, 2.1

MEX

UN/ID No UN1950
Proper shipping name Aerosols
Hazard class 2.1
Description UN1950, Aerosols, 2.1

IATA

UN/ID No UN1950
Proper shipping name Aerosols, flammable
Hazard class 2.1
ERG Code 10L
Description UN1950, Aerosols, flammable, 2.1

ICAO

UN/ID No UN1950
Proper shipping name Aerosols
Hazard class 2.1
Description UN1950, Aerosols, 2.1

IMDG/IMO

UN/ID No	UN1950
Proper shipping name	Aerosols
Hazard class	2
EmS No.	F-D, S-U
Description	UN1950, Aerosols, 2.1

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	no
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
n-Butanol (Butyl alcohol)	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

Food and Drug Administration (FDA)

The product described in this Material Safety Data Sheet is regulated under the Federal Food, Drug, and Cosmetics Act and is safe to use as per directions on container, box or accompanying literature (where applicable).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	Volatile Organic Compounds	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
Ethanol	Present	-
Ethane, 1,1-difluoro-	Present	-
n-Butanol (Butyl alcohol)	Present	-
1,2,3-Propanetriol	Present	-
2-Methylpropan-2-ol	Present	-

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Ethanol	64-17-5	Carcinogen Developmental

Ethanol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

U.S. State Regulations

Chemical Name	New Jersey
Ethanol	X
Ethane, 1,1-difluoro-	X

Chemical Name	Massachusetts
Ethanol	X
Ethane, 1,1-difluoro-	X

Chemical Name	Pennsylvania
Ethanol	X
2-Methylpropan-2-ol	X

Chemical Name	Rhode Island
Ethanol	X

International Regulations**Canada****WHMIS Hazard Class**

Not subject to WHMIS classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR. This product is regulated by the Food and Drug Administration of Health Canada and is therefore exempt from the requirements of CEPA.

International Inventories

TSCA Exempt

DSL Exempt

NDSL Exempt

Perfumes contained with the products comply with appropriate IFRA guidance.**Legend****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**16. OTHER INFORMATION****Issuing Date:** 24-May-2012**Revision Date:** 31-May-2012**Disclaimer**

The information provided in this 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of MSDS