

SAFETY DATA SHEET

24-hr Emergency Phone Number
800-255-3924 (Chem-Tel)

SECTION 1 - IDENTIFICATION

Product Identifier(s)	902G, 904G, 916G, 932G, 902GEU, 904GEU, 916GEU, 932GEU	Revision No.	4
Product Name	Hoppe's Synthetic Blend Bore Cleaner	Revision Date	January 19, 2016
Other Means of Identification	None	Print Date	January 19, 2016
Identified Uses of the Product	Firearms bore cleaner		
Restrictions on Use	No restrictions identified		

MANUFACTURER DETAILS		DISTRIBUTOR DETAILS	
Company Name	Tri-Pac Inc	Company Name	Bushnell
Address	17336 M-60 East Vandalia MI 49095	Address	9200 Cody Overland Park KC 66214
Phone Number	269-476-2303	Phone Number	800-423-3537
Fax Number	269-476-2302	Fax Number	913-752-3570

SECTION 2 - HAZARDS IDENTIFICATION

GHS/CLP (1272/2008) Classification of the Substance or Mixture

HEALTH HAZARDS									
Acute Tox. Oral	<input type="checkbox"/>	Skin Irritation	<input type="checkbox"/>	Skin Sensitization	<input type="checkbox"/>	Tox. To Reproduction	<input type="checkbox"/>	STOT SE	<input type="checkbox"/>
Acute Tox. Skin	<input type="checkbox"/>	Eye Irritation	<input type="checkbox"/>	Mutagenicity	<input type="checkbox"/>	Aspiration Hazard	<input type="checkbox"/>	STOT RE	<input type="checkbox"/>
Acute Tox. Inhalation	<input type="checkbox"/>	Resp. Sensitization	<input type="checkbox"/>	Carcinogenicity	<input type="checkbox"/>				

PHYSICAL HAZARDS									
Unstable Explosive	<input type="checkbox"/>	Oxidizing Gas	<input type="checkbox"/>	Flammable Solid	<input type="checkbox"/>	Pyrophoric Solid	<input type="checkbox"/>	Oxidizing Solid	<input type="checkbox"/>
Explosive	<input type="checkbox"/>	Gas Under Pressure	<input type="checkbox"/>	Self-Reactive Substance	<input type="checkbox"/>	Emits Flammable Gas	<input type="checkbox"/>	Organic Peroxide	<input type="checkbox"/>
Flammable Gas	<input type="checkbox"/>	Refrigerated Liq. Gas	<input type="checkbox"/>	Pyrophoric Liquid	<input type="checkbox"/>	Oxidizing Liquid	<input type="checkbox"/>	Corrosive to Metal	<input type="checkbox"/>
Aerosol	<input type="checkbox"/>	Flammable Liquid	<input type="checkbox"/>	Self-Heating Substance	<input type="checkbox"/>				

ENVIRONMENTAL HAZARDS									
Aquatic Acute	<input type="checkbox"/>	Aquatic Chronic	<input type="checkbox"/>	Ozone Depleting	<input type="checkbox"/>				

GHS/CLP (1272/2008) Label Elements

Hazard Pictograms	None
Signal Word	None
Hazard Statements	None
Precautionary Statements	
General	Keep away from children.
Prevention	None
Response	None
Storage	None
Disposal	None

Other Hazards Which Do Not Result In Classification

Hazards	Not Applicable
---------	----------------

SAFETY DATA SHEET

24-hr Emergency Phone Number
800-255-3924 (Chem-Tel)

Other Classifications

HMIS III Classification Health: 1 Flammability: 0 Physical Hazard: 0
NFPA Classification Health: 1 Flammability: 0 Reactivity: 0 Special Hazard: None

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

ID	INGREDIENT	CAS NUMBER	EINECS	INDEX NUMBER	% WT
1	Trade Secret (TSRN 1042-2010)	Listed	Listed	N/A	< 10
2	Trade Secret (TSRN 1045-30512)	Listed	Listed	N/A	< 5

SECTION 4 - FIRST-AID MEASURES

Description of First-Aid Measures

Eye Contact Immediately flush with clear water for at least 15 minutes, including under the eyelids. Consult a doctor.
Skin Contact Remove with soap and water, rinsing and repeating for 15 minutes. Remove contaminated clothing.
Ingestion DO NOT INDUCE VOMITING! Give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.
Inhalation No fumes are emitted when using this product. No adverse effects are anticipated from inhalation.
First-Aid Responder Protection Wear adequate personal protective equipment based on the nature and severity of the emergency.

Most Important Symptoms and Effects, Both Acute and Delayed

Eye Contact Liquid contact may cause pain along with moderate eye irritation.
Skin Contact Prolonged or repeated exposure may cause mild skin irritation.
Ingestion May be harmful if swallowed.
Inhalation Not anticipated to be harmful if inhaled.

Indication of Immediate Medical Attention and Special Treatment

Notes to Physician Treat symptomatically.
Specific Treatments/Antidotes Details on specific treatments and/or antidotes are not available.
Immediate Medical Attention No information available.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Extinguishing Media Non-flammable. Use extinguishing media suitable for surrounding material.
Unsuitable Media Not available.

Specific Hazards Arising from the Chemical or Mixture

Decomposition Products None
Hazards from the Product Not available
Mechanical Impact Sensitivity Probably not sensitive as material is stable.
Static Discharge Sensitivity Not sensitive as material is not flammable.

Special Protection Actions for Fire-Fighters

Protective Actions Use water spray to cool fire exposed containers, as contents may rupture from heat developed pressure.
Protective Equipment Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel No action shall be taken involving any personnel without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
For Emergency Responders Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.

Environmental Precautions

Precautions Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods and Materials for Containment and Cleaning up

Containment Procedures Released content may be contained with absorbent pads, booms, and/or absorbents such as sand.

SAFETY DATA SHEET

24-hr Emergency Phone Number
800-255-3924 (Chem-Tel)

Cleanup Procedures	Soak up material with inert absorbent and place in safety containers for proper disposal.
Other Information	The North American Emergency Response Guidebook, the Australian Dangerous Goods-Initial Emergency Response Guide (SAA/SNZ HB 76), or similar resources providing emergency response information for dealing with accidents, spills, leaks, and/or fires involving dangerous goods.
Prohibited Materials	Combustible absorbent material such as sawdust, use of equipment that may cause sparking.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling

General Handling Precautions	KEEP OUT OF THE REACH OF CHILDREN.
Hygiene Recommendations	Do not eat, drink or smoke when using this product. Wash hands thoroughly after use. Remove contaminated clothing and protective equipment before entering eating or smoking areas.

Conditions for Safe Storage Including And Incompatibilities

Storage Requirements	Do not store below 32 °F. Keep container closed when not in use. Use only with adequate ventilation. Wear proper protective equipment when handling this material. Avoid prolonged or repeated contact with concentrate on skin, eyes, or clothing. Follow all applicable local regulations for handling and storage.
Incompatibilities	Segregate storage away from materials indicated in Section 10.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits	None established
Biological Exposure Indices	None established

Appropriate Engineering Controls

Ventilation	Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.
--------------------	--

Individual Protection Measures

Hygiene Considerations	Avoid contact with the skin and eyes. Wash hands after use.
Thermal Hazards	This product does not present a thermal hazard.
Respiratory Protection	None required.
Skin Protection	Use protective gloves at all times.
Eye/Face Protection	Wear safety glasses, chemical goggles, or face shield.
Other Protective Equipment	Safety showers and eye-wash stations should be available in the workplace near where the material will be used.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point	100 °C (212 °F)	Melting / Freezing Point	-2 °C (28 °F)
Flash Point	None	Decomposition Temperature	Not Available
Explosive Limits	Not Applicable	Autoignition Temperature	Not Applicable
Flammability	Non-flammable	Relative Density (H₂O = 1)	0.990 g/cc
Molecular Weight	Not Available	Weight	8.245 lbs/gal
Vapor Pressure	Not Available	pH	7.50
Vapor Density	Not Available	Evaporation Rate (nBac = 1)	< 1.0
Physical State	Liquid	Partition Coefficient	Not Available
Viscosity	Slightly greater than water	Refractive Index	Not Available
Odor / Odor Threshold	Distinct	Heat of Combustion	Not Available
Appearance / Color	Clear amber	Water Solubility	Complete
Percent Volatile	Not Applicable	VOC Content	Not Applicable
Percent VOC	Not Applicable	HAP Content	Not Applicable
Solids/Non Volatile Content	Not Applicable	Maximum Incremental Reactivity	Not Calculated

SAFETY DATA SHEET

24-hr Emergency Phone Number
800-255-3924 (Chem-Tel)

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity is available for this product or its ingredients.
Chemical Stability	This product is stable.
Hazardous Reactions	This product will have an exothermic reaction with strong acid solutions
Conditions to Avoid	Keep away from heat, sparks, flame, and red hot metal.
Material Incompatibility	Strong acid solutions.
Decomposition Products	None

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity

ID	ORAL LD50		DERMAL LD50		INHALATION LC50		
	VALUE	SPECIES	VALUE	SPECIES	VALUE	TIME	SPECIES
1	5830 mg/kg	mouse	>2000 mg/kg	rat	—	—	—
2	>2000 mg/kg	rat	—	—	—	—	—

Skin Corrosion/Irritation	None of the ingredients are known to cause skin corrosion or irritation.
Eye Damage/Irritation	None of the ingredients are known to cause eye damage or irritation.
Respiratory Irritation	None of the ingredients are known to cause respiration irritation.
Respiratory or Skin Sensitization	None of the ingredients are known to cause sensitization.
Germ Cell Mutagenicity	None of the ingredients are known or suspected of causing genetic defects.
Carcinogen Data	None of the ingredients are known or suspected carcinogens.
Reproductive Toxicity	None of the ingredients are known to cause reproductive harm.
STOT-Single Exposure	None of the ingredients are known to cause specific target organ effects from a single exposure.
STOT-Repeated Exposure	None of the ingredients are known to cause specific target organ effects through prolonged or repeated exposure.
Aspiration Hazard	None of the ingredients are known to be an aspiration hazard.

Information on the Likely Routes of Exposure

Routes of Exposure Skin contact, eye contact

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Symptoms of Exposure Mild irritation

Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure

Delayed Effects	No known delayed effects.
Immediate Effects	No known immediate effects.
Chronic Effects	Not available.
Medical Conditions Aggravated	May aggravate personnel with pre-existing disorders associated with any of the Target Organs.
Target Organs	Eyes, skin

Interactive Effects

Synergistic Effects No known synergistic effects.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity

ID	TYPE	FISH			INVERTEBRATES			AQUATIC PLANTS			MICROORGANISMS		
		VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD	TYPE	VALUE	PERIOD	
2	LC50	564 mg/L	96h	LC50	>1000 mg/L	48h	EC50	265-351 mg/L	5d	—	—	—	

Ecological Data

Biodegradation	Product is biodegradable
Bioaccumulation	No information is available
Mobility	No information is available

SAFETY DATA SHEET

24-hr Emergency Phone Number
800-255-3924 (Chem-Tel)

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal	All waste material must be disposed of in compliance with the respective national, federal, state, and/or local regulations.
Waste Disposal of Packaging	Consult with your local landfill to determine if empty small containers can be disposed of along with regular trash pickup. For disposal of large containers (typically 10 gallon or larger), or for containers not suitable for landfill, a licensed reconditioner should be used.
Landfill Precautions	Not Available
Incineration Precautions	Not Available
Rinsate	Do not dispose of rinse water containing product in a sanitary sewer system, stormwater drainage system, or wastewater treatment system.

SECTION 14 - TRANSPORTATION INFORMATION

ID Number	DOT	ICAO/IATA	IMDG	ADR	TDG
	NON-REGULATED MATERIAL				

SECTION 15 - REGULATORY INFORMATION

United States - Federal Regulations

ID	TSCA LISTED	SARA 302 EHS TPQ	RCRA	CERCLA	SARA 313	FIRE	REACTIVITY	SARA 311/312 ACUTE	CHRONIC	PRESSURE	CLEAN AIR ACT HAP	SOCMI	CLEAN WATER ACT
1	✓												
2	✓												

United States - State Regulations

ID	CA P-65	DE RQ	MA RTK CODES	ME TYPE RQ	RTK	MN AIR	WATER	NJ RTK	AIR	NY LAND	ACUTE	PA LISTED	WA PEL TWA	WI TABLE	WV TAP
1															
2															

Canadian Regulations

ID	A	B	C	D1A	D1B	D2A	D2B	D3	E	DSL	CHEMICAL LISTS NDSL	NPRI
1										✓		
2										✓		

CPR Notice	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.
WHMIS Classification	None
WHMIS Symbols	None

European Union Regulations

ID	1907/2006 SVHC	67/548/EEC CLASSIFICATION	HAZARD CODES	1272/2008 PICTOGRAM CODES	SUPPL. CODES
1					
2					

Classification According to EU Directive 1999/45/EC or 67/548/ECC (see Section 16 for full text)

67/548/EEC Pictograms	None
Risk Phrases	None
Safety Phrases	None

International Regulations

Chemical Weapons Convention	None of the ingredients are listed on the convention's schedules.
------------------------------------	---

SAFETY DATA SHEET

24-hr Emergency Phone Number

800-255-3924 (Chem-Tel)

SECTION 16 - OTHER INFORMATION

Full Text of EU Phrases and Precautionary Statements

CODE	HAZARD STATEMENTS
	None

CODE	SUPPLEMENTAL STATEMENTS
	None

CODE	PRECAUTIONARY STATEMENTS
	None

CODE	RISK PHRASES
	None

CODE	SAFETY PHRASES
	None

SDS Revision History
Revision 1, 02/15/2013, Original
Revision 2, 03/08/2013, Updated to full GHS compliance
Revision 3, 07/15/2013, Updated based on new information from supplier
Revision 4, 01/19/2016, General update

SDS Prepared By Hazard Communication Associates, sds@hazcom411.com

Disclaimer of Liability
The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

References and Sources
CAMEO Database of Hazardous Materials (<http://cameochemicals.noaa.gov>)
CHEMpendium Database (<http://ccinfoweb.ccohs.ca/chempendium/search.html>)
ChemSpider Chemical Database (<http://chemspider.com>)
European Chemical Substances Information System (<http://esis.jrc.ec.europa.eu>)
European Chemicals Agency (<http://echa.europa.eu>)
International Chemical Safety Cards (<http://www.cdc.gov/niosh/ipcs/ipccard.html>)
IUCLID Chemical Data Sheets Information System (<http://esis.jrc.ec.europa.eu/index.php?PGM=dat>)
Merck Chemical Database (<http://www.merckmillipore.co.uk/chemicals>)
NIOSH Pocket Guide to Chemical Hazards (<http://www.cdc.gov/niosh/npg/>)
Right to Know Hazardous Substance Fact Sheets (<http://web.doh.state.nj.us/rtkhsfs/indexfs.aspx>)
RTECS Database (<http://ccinfoweb.ccohs.ca/rtecs/search.html>)
SOLV-DB, Solvent Database (<http://solvdb.ncms.org/solvdb.htm>)
Toxic Substances Portal (<http://www.atsdr.cdc.gov/toxprofiles/index.asp>)
TOXNet (<http://toxnet.nlm.nih.gov>)

Abbreviations Used

ACGIH	American Conference of Industrial Hygienists
ADR	European Agreement ... International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
BOD	Biochemical Oxygen Demand
CA	California
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (USA)
CFR	Code of Federal Regulations (USA)
CLP	Classification, Labelling and Packaging of Substances (Europe)
COD	Chemical Oxygen Demand
CPR	Controlled Products Regulations (Canada)
DE	Delaware
DOT	Department of Transportation (USA)
DSL	Domestic Substance List (Canada)
EC	European Community
EC50	Effective Concentration 50%
EHA	Extremely Hazardous Substance
EPA	Environmental Protection Agency (USA)
g/cc	Grams per Cubic Centimeter
GHS	Globally Harmonized System
HAP	Hazardous Air Pollutant
IARC	International Agency for Research on Cancer
IATA	International Air Transportation Association
IC50	Half Maximal Inhibitory Concentration
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods
Kow	Octanol-Water Partition Coefficient
lbs/gal	Pounds per Gallon
LC50	Lethal Concentration 50%
LD50	Lethal Dosage 50%
MA	Massachusetts
MAK	Maximale Arbeitsplatz Konzentration (Maximum Workplace Concentration)
Max	Maximum
mg/L	Milligrams per Litre
mg/m3	Milligrams per Cubic Meter
MN	Minnesota
MPEL-PTA	Maximum Permissible Exposure Limit on Pondered Time Average

SAFETY DATA SHEET

24-hr Emergency Phone Number

800-255-3924 (Chem-Tel)

NDSL	Non-Domestic Substance List (Canada)
NIOSH	National Institute for Occupational Safety and Health (USA)
NJ	New Jersey
NOEC	No Observed Effect Concentration
NPRI	National Pollutant Release Inventory (Canada)
NTP	National Toxicity Program (USA)
NY	New York
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration (USA)
P-65	Proposition 65 (USA)
PA	Pennsylvania
Pow	Octanol-Water Partition Coefficient
ppm	Parts per Million
psig	Pounds per Square Inch Gage
RCRA	Resource Conservation and Recovery Act (USA)
REL	Recommended Exposure Limit
RQ	Reportable Quantity
RTK	Right to Know
SARA	Superfund Amendments and Reauthorization Act (USA)
SDS	Safety Data Sheet
SOCMI	Synthetic Organic Chemical Manufacturing Industry (USA)
STOT-RE	Suspected Target Organ Toxin, Repeat Exposure
STOT-SE	Suspected Target Organ Toxin, Single Exposure
SVHC	Substance of Very High Concern
TAP	Toxic Air Pollutant
TDG	Transportation of Dangerous Goods (Canada)
ThOD	Theoretical Oxygen Demand
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act (USA)
TWA	Time Weighted Average
TWAEV	Time Weighted Average Exposure Value
VOC	Volatile Organic Compound
WA	Washington
WEL	Workplace Exposure Limit
WHMIS	Workplace Hazardous Materials Information System (Canada)
WI	Wisconsin
WV	West Virginia