



Double Base Powders

SAFETY DATA SHEET

June 2017

The following smokeless powders are
distributed by Hodgdon Powder Company.

Hi-Skor 700X TM **(EX-2016090001)**

Hi-Skor 800X TM **(EX-2016090001)**

Clays (AS-30N) **(EX-2013031259)**

International (AS-50N) **(EX-2015110878)**

Universal (AP-70N) **(EX-2012010792)**

1.4C EX Approval Number in Bold Parenthesis

NZ DISTRIBUTOR:
Steve's Wholesale
Units 5-7 / 408 The Esplanade Island Bay
Wellington 6023
04 383 7351 0800 303 303
Emergency Contact
Steve Collings 0274 905 708

Material Safety Data Sheet

General Dynamics Ordnance and Tactical
Systems–Canada Valleyfield Inc.
55, rue Masson
Valleyfield (Québec)
Canada J6S 4V9

Emergency phone number
24 hours : 1-888-922-3330
Emergency Response Plan ERP2-1693

SECTION I - PRODUCT IDENTIFICATION

Product name : HS, SS, RF (all types), XPR09G0, AS30, AS50 & AP70 – Double base, propellant powder

WHIMS classification :

Division : not controlled
Subdivision : not controlled

GD Part number : 519-520-521-522-523-525-528-529-530-531-532-533-541-621-638-665-771.770

Chemical formula : N/AP

Product use : Gun propellant

CAS number : N/AP

MSDS number : 14E321

SECTION II - PHYSICAL / CHEMICAL DATA

Physical state and appearance : Black granular solid.

Molecular weight : N/AP

Vapour density (air = 1) : N/AV

Boiling point (°C) : N/AP

Odour : N/AV

Vapour pressure : N/AV

Evaporation : N/AP

Freezing point (°C) : N/AV

pH : N/AV

Coefficient of water / oil distribution : N/AV

Density : 1.6 g/cm³

Solubility in water (20°C) : N/AP

SECTION III - COMPOSITION

<u>Ingredients</u>	<u>% wt</u>	<u>TWA</u>	<u>CAS number</u>
Nitrocellulose	50 – 90	None	9004-70-0
Nitroglycerine	5 – 40	2 mg/m ³	55-63-0
Potassium sulphate	0.5	N/AV	7778-80-5
Graphite	0.4	10 mg/m ³	7782-42-5
Ethyl Centralite	1 – 2		85-98-3

SECTION IV - FIRE AND EXPLOSION INFORMATION

Flash point (°C) :	N/AP
Autoignition temperature (°C) :	170°C
Upper flammable limit (volume %) :	N/AV
Lower flammable limit (volume %) :	N/AV
Flammability ? :	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
If yes, under what conditions ? :	Heat, open flame, static discharge and impact.
Means of extinction :	Water can be used from a distance.
Special procedures :	Evacuate immediately. Do not fight fire.
Hazardous combustion products :	Carbon oxides (CO, CO ₂) and Nitrogen (NO _x).
Explosion data :	This product is explosive and will ignite at high temperature, with an open flame or with a spark.
Sensitivity to mechanical impact or to static discharge :	Sensitive to static discharge and impact.

SECTION V - REACTIVITY DATA

Chemical stability :	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
If no, under what conditions ? :	Heat, open flame and sparks.
Incompatibility to other substances ? :	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
If so, which ones ? :	Strong alkalis, strong acids and ignition sources.
Reactivity and under what conditions :	N/AP
Hazardous decomposition products :	Nitrogen oxides (NO _x).

SECTION VI - HEALTH HAZARD DATA

Route of entry :

Skin absorption	<input checked="" type="checkbox"/>
Inhalation	<input checked="" type="checkbox"/>
Ingestion	<input checked="" type="checkbox"/>
Skin contact	<input checked="" type="checkbox"/>
Eye contact	<input type="checkbox"/>

Exposure limits (TWA) :

Irritancy (product) : Is irritating to the eyes and to the respiratory tract.

Sensitization to product : N/AV

Carcinogenicity : N/AV

Teratogenicity : N/AV

Reproductive effects : N/AV

Synergistic materials : N/AV

Mutagenicity : N/AV

Effects of acute exposure to product : Irritation of the eyes and the upper respiratory tract (nose and throat), followed by coughing.

Effects of chronic exposure to product : N/AV

Toxicological data :

Products	Species	DL50 oral	DL50 skin	CL50 inhalation
Nitroglycérine	Rat	80 mg/kg	N/AV	N/AV

SECTION VII - PREVENTIVE MEASURE

PERSONAL PROTECTIVE EQUIPMENT

Gloves and clothing :	Cotton or nitril gloves and protective clothing. Change frequently.
Eye protection :	Safety glasses with lateral protection.
Footwear :	Anti-static conductive shoes.
Other :	Safety shower and safety eye shower could be available.
Respiratory protection :	If ventilation is insufficient, wear a dust mask or a cartridge respirator.
Engineering controls :	N/AV
Handling procedures and equipment :	Explosive, will ignite if exposed to sudden heat.
Storage requirements :	Store away from source of ignition and heat.

Special shipping information :

Hazard Class :	1.3C
UN number :	UN 0161
Shipping name :	Powder, smokeless
EX number :	1990030229-231-232-233-234-235-236-237-238-239-240-241-242, 1994070209-210, 1997070055, 1990060050-051, 1990080090
Subsidiary risk :	Ø
Packing group :	II

Special shipping information: (Equivalency certificate)

Hazard Class :	4.1
UN number :	UN 3178
Shipping name :	Flammable solid inorganic NOS (small arms propellant)
EX number :	1990030229-231-232-233-234-235-236-237-238-239-240-241-242, 1994070209-210, 1997070055, 1990060050-051, 1990080090
Subsidiary risk :	Ø
Packing group :	II

SECTION VIII - FIRST AID MEASURES

Skin :	Wash contaminated area with soap and water.
Eye :	Keeping eyes open, rinse immediately with running water for at least 15 minutes.
Inhalation :	Move victim to fresh air. If victim is not breathing give CPR. Give oxygen, keep victim warm and get medical help.
Ingestion :	Consult a physician.
Other and advice to doctor :	N/AV

SECTION IX - ENVIRONMENTAL PROTECTION INFORMATION

Environmental effects :	N/AV	HSR100166
Deactivating chemicals :	N/AV	
Steps to be taken in the event of a spill or a leak :	Be sure to wet powder thoroughly before picking up with conventional methods.	
Waste disposal :	Incinerate at an approved site.	

SECTION X - PREPARATION INFORMATION

02.0.30 et al. 10/11/14 SW Revision Date 05.05.2020

Prepared by :	General Dynamics Ordnance and Tactical Systems-Canada Valleyfield Inc.
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Date :	December, 2014

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Legend :

N/AP :	Non applicable
N/AV :	Not available
CAS :	Chemical Abstract Service
TWA :	Time Wait Average
WHIMS :	Workplace Hazardous Materials Information System