United Brands PDDM Inc., 170 Associated Rd., South San Francisco, CA 94080 Tel: 800-500-0583 Emergency Contact: Chemtrec 800-424-9300

unitedbrands 🗷

MSDS (MATERIAL DATA SAFETY SHEET) 8 gram compressed gas (n2o) filled charger

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

COMPANY : UNITED BRANDS PRODUCT DESIGN DEVELOPMENT AND MARKETING INC.

CONTACT: 170 Associated Rd., South San Francisco, CA 94080, U.S.A TEL : 650-588-8952

TEL: 650-588-8952 FAX: 650-588-8568

PRODUCT: Ntirous oxide supplied in cartridges

CREATION DATE : Jan 2013 FOR

3 FORMULA: N 2 O

EMERGENCY CONTACT: CHEMTREC: 800-424-9300

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients CAS NO EINECS

Nitrous oxide 10024-97-2 233-032-0

2. HAZARD IDENTIFICATION

2.1. Classification according to Regulation No 1272/2008/EC

GHS label elements





WARNING

Category

Oxid. gas: 1 category, Gases under pressure, liquefied gas,

Hazard Statements (H- phrases)

H270 - May cause or intensify fire; oxidiser.

H280 - Contains gas under pressure; may explode if heated.

Precautionary Statements (P- phrases)

P244 - Keep reduction valves free from grease and oil.

P220 - Keep/Store away from clothing/.../combustible materials.

P370+P376 - In case of fire: Stop leak if safe to do so.

P403 - Store in a well-ventilated place.

Supplemental hazard infomation

2.2. Classification according to Directive 67/548/EEC or Directive 1999/45/E C

O - oxidizing



Date: Date of evision:	2005.05.17. 2012.04.16.	Nitrous oxide supplied in cartridges	Site: 2/9 Version: 2
3.1. 3.2. 3.3.	R40 - Limited evidence Danger signs S1/2 - Keep locked up S9 - Keep container in S17 - Keep away from S21 - When using do n S36/37/39 - Wear suita S38 - In case of insuffic	not smoke. The protective clothing and eye/face protection. The ventilation, wear suitable respiratory equipment. Int or if you feel unwell, seek medical advice immediately (show the label whe ple, danger	re possible).
3. CC	no data	ORMATION ON INGREDIENTS	
0024-9	O Xn 8-40 GHS03 GH:		min.99 %
ou car	n see full text of R and H	l sentences at 16 point.)	
4. FIR	ST AID MEASURE	S	
ymptoi	remove the wounded treatment is needed. wash out immediately risk of chilblain, thaw red no adverse effects anti ms and effects, both ac inhalation of small am	to fresh air, when unconsious without delay artificial respiration or oxigen in with plenty of water for at least 15 minutes. frostbite slowly with lukewarm water, prohibited to remove clothes, medical icipated, Do not eat or drink during work- no smoking. ute and delayed ounts cause laughter, intoxicating, pulsating sound and visual hallucinations, narcotic (laughing gas).	treatment is needed.

Unit	ed Brands PDDM Inc., 170	Associated Rd., South San Francisco, CA 94080	Tel: 800-500-0583 Emergency Contact: Cher	mtrec 800-42	4-9300
Date: Date of revision	2005.05.17. 2012.04.16.	Nitrous oxide supplied	in cartridges	Site: Version:	3/9 2
Genera		octor: symptomatic treatment,			
5. Fll	REFIGHTING MEAS	JRES			
Fire-ha	zard class: C Hig	ly flammable			
5.1. 5.2.	Adequate extinguishin use extinguishing mat Inadequate extinguish water jet prohibited,	rial suitable to the near fire circumstances,			
5.3.	Dangerous decomposi no data	ion products			
5.4.	Special protection equ Wear self-contained br	oment for firemen athing apparatus pneumatic breathing-mas	k, closed industrial protecting clothing,		
5.5. 5.6.	Specific dangers no data Specific methods no data				
6. A0	CCIDENTAL RELEA	E MEASURES			
6.1.	Measures for personel put on the protective e	rotection: quipment, evacuate the area and close for th	e traffic, keep upwind,		
6.2.	Measures for enrirome if possible stop the lea or water,notify the loca	age, prevent that the substance in gutter, h	ole and collar gets, when the substance	gets in gutt	er
6.3.		ation 1, warn everybody, when in liquid form is: do outstreamed substance , cover blot off with)
6.4.	Reference to other sec Find the personal prot	ons ctive equipments in the 8.			
7. H/	ANDLING AND STO	RAGE			
7.1.	Handling				
7.1.1.	Technical precautions	rovided, it is recommended to use protectiv	e equipments,		
7.1.2.	comes in contact with should be used.	ng on the skin, in the eyes, on the clothes, av vater, equipment that is suitable for this pro			2
7.2. 7.2.1.		rage conditions lated place, Store in a cool, dry well-ventilat , protected direct sunlight,	ed area. keep away from heat, sources of	ignation, in	

Unite	ed Brands PDDM Inc., 170 Associated Rd., South	an Francisco, CA 94080 Tel: 800-500-0583 Emergency Cont	act: Chemtrec 800-424-9300
Date:	2005.05.17. Nit	ous oxide supplied in cartridges	Site: 4/9
Date of revision:	2012.04.16		Version: 2
7.2.2.	Incompatible products	morphous boron, phosphine, ethers, aluminum, hydraz	ine phenyl lithium and
		hazard, the gas strong oxidising agent above 300 ° C and	
	mixtures with ammonia, carbon monoxide,	ydrogen sulfide, oil, grease and fuels,	
7.2.3.	Packaging materials		
	in retail boxes and/or in bulk		
7.3.	Special application no data		
	no data		
8. EX	POSURE CONTROLS – PERSONAL	PROTECTION	
0.1			
8.1. in	Exposure limit values gredients:	AK value (mg/m3) CK value (mg/m3)	MK value (mg/m3)
	itrous oxide supplied in cylinder	180 720	Mix value (mg/mb)
		100 720	
8.2.	Exposure control		
		ended to use protective equipments, avoid breathing it	s fume, avoid the
	product getting on the skin, in the eyes, on	ne clothes,	
8.2.1.	Workplace exposure control		
8.2.1.1.			:- : f
	the ambient air should be used, Use self-	piratory protection, in enclosed space a respirator that contained breathing apparatus.	is independent from
8.2.1.2.	Hand protection:		
	protective gloves,		
L			
8.2.1.3.	Eyes protection:		
0	tigthly closing protective goggles (EN 16	6),	
00			
8.2.1.4.	Protection of skin and body surface: protective apron, safety shoes (MSZ EN 345	1 CR)	
8.2.2.	Environmental exposure control	(JC, 1)	
0.2.2.	prevent that the substance in gutter, hole a	nd collar gets,	
		-	
9 DH	IYSICAL AND CHEMICAL PROPERT	FS	
2.11			
9.1.	General informations		
	Appearance:	liquefied gas,	
	Colour:	colourless,	
	Odour:	sweetish odor,	
	Information on basic physical and chemical Ph:	-	
	Pn: Boiling Point (°C):	nincs adat/no data 88,5℃	
	Ignition temperature ($^{\circ}C$):	nincs adat/no data	
	Explosive limit:		
	- lower:	nincs adat/no data	
	- upper:	nincs adat/no data	

Date:	2005.05.17. Ni	trous oxide supplied in cartridges	Site: 5/9
Date of revision	2012.04.16.		Version: 2
	Oxidize facility:	nincs adat/no data	
	Vapor Pressure (20°C):	nincs adat/no data	
	Gravity (20°C):	nincs adat/no data	
	Specific gravity (water=1), (20°C): Solubility:	nincs adat/no data	
	- Water:	2,2 mg/l	
	- Other solvents:	no data	
	Distribution coefficient (n-octanol/water):	nincs adat/no data	
	Viscosity:	nincs adat/no data	
	Vapor Density:	1,5	
	Evaporation Rate:	nincs adat/no data	
	Decomposition Temperature: Other items:	nincs adat/no data critical temperature: 36.4°C, critical pressure: 72.4 ba	ar the critical density: 0.452
	other menns.	g/cm3, Filling pressure: 7MPa (1,015psi) Pressure at Burst pressure: min. 45 MPa	
9.2.	Other Informations		
	Melting Point (°C):	-90,81°C	
	Flash-point (°C):	nincs adat/no data	
10.5	STABILITY AND REACTIVITY		
10.1.	Reactivity		
	stable under normal conditions,		
10.2.	Chemical stability		
	there is no decomposition under normal co	ondition,	
10.3.	Possibility of hazardous reactions		
	,	amorphous boron, phosphine, ethers, aluminum, hy n hazard,	rdrazine, phenyl lithium and
10.4.	Conditions to avoid keep away from heat, flames, sparks and ig	nition sources,	
10.5.	Incompatible materials		
	organic, combustible material,		
10.6.	Hazardous decomposition products		
	nitrogen monoxide		
11.T	OXICOLOGICAL INFORMATION		
Actual	material		
	Nitrous oxide supplied in cartridges		
11.1.	Acute toxicity		
	After inhaling		
	In animals:		
	no data		
11.1.2.	When swallowed In animals:		
	no data		
	In some of contractions also		
11.1.3.	In case of contacting skin		
11.1.3.	In animals:		

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Date:	2005.05.17.	Nitrous oxide supplied in cartridges	Site:	6/9
Date of revision:	2012 04 16	Allous oxide supplied in cartilages	Version:	2
11.2.	Local effects			
	After inhaling			
	no data			
11.2.2.	In case of contacting s	kin		
11.2.3.	no data In case contacting eye	-		
11.2.3.	no data	5		
11.3.	Sensibility			
	no data			
11.4.	Chronic toxicity			
11.5.	no data Specific effects			
	Genotoxicity			
	no data			
11.5.2.	Carcinogenity			
11 5 7	no data			
11.5.3.	Reproductive toxicity no data			
12 F	COLOGICAL INFO	RMATION		
12, 5				
Actual n	natorial			
Actual I	Nitrous oxide supplied	l in cartridges		
12.1.	Ecotoxicity	-		
12.1.1.	Water toxicity			
	no data			
12.1.2.	Terrestrial toxicity			
	no data			
12.1.3.	Behaviour in waste wa	ter treatment plants		
12.2.	no data Mobility			
	no data			
	Biological persistence			
12.3.1.	General			
1222	no information availab In water	אפ,		
12.J.Z.	no data			
12.3.3.	In air			
10.0.5	no data			
12.3.4.	In soils and sediments no data			
12.4.	Bioaccumulative poter	ntial		
	no data			
12.5.	Results of PBT and vPv	B assessment		
12.6.	no data Other adverse effects			
	prevent that the subst	tance in water,agricultural land and gutter gets, when the substance gets in gutter or v	vater,notify	the
	local authorities,			

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Date:	2005.05.17.	Nitrous oxide supplied in cartridges	Site: 7/9		
Date of revision	2012.04.16.		Version: 2		
Tevision	·				
13 Г	DISPOSAL CONSIDERAT	IONS			
15.6					
13.1.	Material disposal				
		the use of the substance or preparation and unsuitable for further utilisation,	as well as the		
	tools and packing materi-als, and local environmental regu	should be delivered to an approved deposit for recy-cling or neutralisation. o	bserve all state		
13.2.	Package disposal				
		rironmental regulations, the packaging has to be used, like product			
13.3.	EWC number				
	15 01 05				
14. T	RANSPORT INFORMAT	ION			
UN nun			0		
	2037 DN/RI D				
AUN/AL	Proper shipping name:	Receptacles, small, containing gas (Gas Cartridges)	V		
	Technical/Trade name:	Nitrous oxide supplied in cartridges			
	Hazard class:	2			
	Labels:	2.2 + 5.1			
	Classification code:	50			
	Packing group:	-			
	Hazard identification number	: 25			
	Hazard of environment:	NO			
	Tunnel restriction code:	(E)			
IMDG					
	Proper shipping name:	Receptacles, small, containing gas (Gas Cartridges)			
	Technical/Trade name:	Nitrous oxide supplied in cartridges			
	Hazard class:	2			
	Labels:	2.2 + 5.1			
	Packing group:	-			
	EmS:	F-D,S-U,			
	Marine pollutant:	NO			
IAT A					
	Proper shipping name:	Gas cartridges			
	Technical/Trade name:	Nitrous oxide supplied in cartridges			
	Hazard class:	2.2			
	Labels:	2.2 (5.1)			
	Packing group:	-			
	PAX:	203			
	CAO:	203			
	UN Number:	2037			
15. F	REGULATORY INFORMA	TION			
15.1.	Seveso category				
	3 Oxidising agents,				
15.2.	Storage category				
		, liquefied or dissolved under pressure gases,			
		· · · · · · · · · · · · · · · · · · ·			

			<u>.</u>			
ate: ate_of	2005.05.17. 2012.04.16.	Nitrous oxide supplied in cartridges	Site: 8/9 Version: 2			
vision	•		l			
.3.	WGK					
	WGK 1					
.4.		ulations related to the product vork safety, and the related regulations				
	Act No. XLIII/2000 on v					
	Act No. XXV/2000 on o					
		01 (VI. 15.) on the conditions of pursuing waste-related activities III. 28.) of the Minister of Public Health on the general health require	ments of working and work			
	conditions without he					
		III. 28.) of the Minister of Public Health on the limitations of the (wee	kly, daily) exposure time of			
	workers employed under certain health risks Decree No. 28/2011. (IX. 6.) of the Minister of Internal Affairs on issuing the National Fire Protection Rules					
	Decree No. 44/2000. ()	II. 20.) of the Minister of Health on the detailed rules of certain proc				
		and hazardous products 00 (IX. 30.) of the Minister of Health and of the Minister of Social and	d Family Affairs on the chemical			
	safety of workplaces,		a ranning Analis on the chemical			
	EüM decree no.					
	chemicals (REACH)	nity and Regulation 1907/2006/EC on the registration, evaluation, a	pproval and restriction of			
.5.	Other relevant nationa	l regulations				
	Joint Decree No. 25/20	00 (IX. 30.) of the Minister of Health and of the Minister of Social and	d Family Affairs on the chemical			
	safety of workplaces	ecree No. 16/2001 (VII. 18.) of the Minister for the Environment on th	no lists of wasto as amondod			
		(III. 26.) of the Minister for the Environment	le lists of waste, as amended			
		ment: Act 19 of 1979 and decree no. 71/2011 (XII.8.) amending KPN				
		ion of Annex "A" and "B" of the European Agreement on the Interna Annex C of Act LXXVII of 2006 (GKM decree no. 72/2011 (XII.8.) NFM				
	domestic use of the ar	nexes of the International Railway Goods Transport Convention				
	1272/2000/EC regulat					
		on on classification, labelling and packaging of substances and mixi	tures, amending and repealing			
56	Directives 67/548/EEC	and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	tures, amending and repealing			
5.6.		and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	tures, amending and repealing			
5.6.	Directives 67/548/EEC Chemical safety assess	and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	tures, amending and repealing			
	Directives 67/548/EEC Chemical safety assess	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment	tures, amending and repealing			
	Directives 67/548/EEC Chemical safety assess no data	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment	tures, amending and repealing			
16. (Directives 67/548/EEC Chemical safety assess no data OTHER INFORMAT	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON				
16. (Directives 67/548/EEC Chemical safety assess no data DTHER INFORMAT iew affected this chapte 1.3, 3.3.3, 3.3.4, 4.2, 4	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON rs: .5, 4.6, 5.5, 5.6, 6.4, 7.2.2, 7.2.3, 7.3, 8.1, 8.2.1.1, 10.2, 10.5, 10.6,	, 10.7, 11 .1.1,			
16.0	Directives 67/548/EEC Chemical safety assess no data DTHER INFORMAT iew affected this chapte 1.3, 3.3.3, 3.3.4, 4.2, 4 11.1.2, 11.1.3, 11.2.3,	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON	, 10.7, 11 .1.1,			
1 6. (1e rev	Directives 67/548/EEC Chemical safety assess no data DTHER INFORMAT iew affected this chapte 1.3, 3.3.3, 3.3.4, 4.2, 4 11.1.2, 11.1.3, 11.2.3, 12.3.2, 12.3.3, 12.4, 1	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON rs: .5, 4.6, 5.5, 5.6, 6.4, 7.2.2, 7.2.3, 7.3, 8.1, 8.2.1.1, 10.2, 10.5, 10.6, 11.2.2, 11.2.1, 11.3, 11.4, 11.5.1, 11.5.2, 11.5.3, 12.1.1, 12.1.2, 12.1	, 10.7, 11 .1.1,			
e rev	Directives 67/548/EEC Chemical safety assess no data DTHER INFORMAT iew affected this chapte 1.3, 3.3.3, 3.3.4, 4.2, 4 11.1.2, 11.1.3, 11.2.3, 12.3.2, 12.3.3, 12.4, 1 rases R8 - Contact with com	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON .5, 4.6, 5.5, 5.6, 6.4, 7.2.2, 7.2.3, 7.3, 8.1, 8.2.1.1, 10.2, 10.5, 10.6, 11.2.2, 11.2.1, 11.3, 11.4, 11.5.1, 11.5.2, 11.5.3, 12.1.1, 12.1.2, 12.1 2.6, 12.5, 14, 15.14, 15.11, 15.10, 16.3 pustible material may cause fire.	, 10.7, 11 .1.1,			
16. C	Directives 67/548/EEC Chemical safety assess no data DTHER INFORMAT iew affected this chapte 1.3, 3.3.3, 3.3.4, 4.2, 4 11.1.2, 11.1.3, 11.2.3, 12.3.2, 12.3.3, 12.4, 1 rases R8 - Contact with com R40 - Limited evidence	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON .5, 4.6, 5.5, 5.6, 6.4, 7.2.2, 7.2.3, 7.3, 8.1, 8.2.1.1, 10.2, 10.5, 10.6, 11.2.2, 11.2.1, 11.3, 11.4, 11.5.1, 11.5.2, 11.5.3, 12.1.1, 12.1.2, 12.1 2.6, 12.5, 14, 15.14, 15.11, 15.10, 16.3	, 10.7, 11 .1.1,			
16. C	Directives 67/548/EEC Chemical safety assess no data DTHER INFORMAT iew affected this chapte 1.3, 3.3.3, 3.3.4, 4.2, 4 11.1.2, 11.1.3, 11.2.3, 12.3.2, 12.3.3, 12.4, 1 rases R8 - Contact with com R40 - Limited evidence ses	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON rs: .5, 4.6, 5.5, 5.6, 6.4, 7.2.2, 7.2.3, 7.3, 8.1, 8.2.1.1, 10.2, 10.5, 10.6, 11.2.2, 11.2.1, 11.3, 11.4, 11.5.1, 11.5.2, 11.5.3, 12.1.1, 12.1.2, 12.1 2.6, 12.5, 14, 15.14, 15.11, 15.10, 16.3 pustible material may cause fire. e of a carcinogenic effect.	, 10.7, 11 .1.1,			
16. C ne rev sk ph	Directives 67/548/EEC Chemical safety assess no data DTHER INFORMAT iew affected this chapte 1.3, 3.3.3, 3.3.4, 4.2, 4 11.1.2, 11.1.3, 11.2.3, 12.3.2, 12.3.3, 12.4, 1 rases R8 - Contact with com R40 - Limited evidence ses H270 - May cause or ir	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON rs: .5, 4.6, 5.5, 5.6, 6.4, 7.2.2, 7.2.3, 7.3, 8.1, 8.2.1.1, 10.2, 10.5, 10.6, 11.2.2, 11.2.1, 11.3, 11.4, 11.5.1, 11.5.2, 11.5.3, 12.1.1, 12.1.2, 12.1 2.6, 12.5, 14, 15.14, 15.11, 15.10, 16.3 pustible material may cause fire. e of a carcinogenic effect. tensify fire; oxidiser.	, 10.7, 11 .1.1,			
16. (ne rev sk ph	Directives 67/548/EEC Chemical safety assess no data DTHER INFORMAT iew affected this chapte 1.3, 3.3.3, 3.3.4, 4.2, 4 11.1.2, 11.1.3, 11.2.3, 12.3.2, 12.3.3, 12.4, 1 rases R8 - Contact with com R40 - Limited evidence ses H270 - May cause or ir	and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ment ON rs: .5, 4.6, 5.5, 5.6, 6.4, 7.2.2, 7.2.3, 7.3, 8.1, 8.2.1.1, 10.2, 10.5, 10.6, 11.2.2, 11.2.1, 11.3, 11.4, 11.5.1, 11.5.2, 11.5.3, 12.1.1, 12.1.2, 12.1 2.6, 12.5, 14, 15.14, 15.11, 15.10, 16.3 pustible material may cause fire. e of a carcinogenic effect.	, 10.7, 11 .1.1,			
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