Page 1 of 6 SAFETY DATA SHEET PAUL MITCHELL **PM-008** SDS Revision: 1.3 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 7/1/2016 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: - THE COLOR PERMANENT CREAM JPMS HAIR COLOR GRAY **COVERAGE 8N+ LIGHT NATURAL BLONDE** 1.2 Chemical Name: NA 1.3 Synonyms JPMS - The Color Permanent Cream Hair Color Gray Coverage 8N+ Light Natural Blonde 1.4 Trade Names: John Paul Mitchell Systems - The Color Permanent Cream Hair Color Gray Coverage 8N+ Light Natural Blonde 1.5 Product Uses & Restrictions: Professional Use Only 1.6 Distributor's Name JPMS Manufacturing, LLC 237 Buttonwood Street, Reading, PA 19601 USA 1.7 Distributor's Address: 18 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 11977) 19 Business Phone / Fax: +1 (610) 374-4845 / +1(610) 373-7101 2. HAZARDS IDENTIFICATION This product is classified as a HAZARDOUS SUBSTANCE but NOT as DANGEROUS GOODS 21 Hazard Identification: according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). WARNING! MAY CAUSES AN ALLERGIC SKIN REACTION. CAU SES SERIOUS EYE **IRRITATION. HARMFUL IF SWALLOWED.** Classification: Skin Sens. 1; Eye Irrit. 2B; Acute Tox. Oral 4 Hazard Statements (H): H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H302 - Harmful if swallowed. Precautionary Statements (P): P264 - Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P270 - Do not eat, drink or smoke while using this product. P280 - Wear protective gloves and eye/face protection. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P338 - IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P332+P313 - If skin irritation occurs: get medical advice/attention. P312 - Call a POISON CENTER/doctor if you feel unwell. P405 - Store locked up. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF) NOTICE: This product is designed and intended for use by a licensed cosmetologist/professional hairdresser only, and carries no warranty, expressed or implied, if used by others. CAN CAUSE AN ALLERGIC REACTION. Preliminary patch testing is recommended. Tattoos, including black and temporary henna, may increase the risk of allergy. If a severe allergic reaction should occur, seek immediate medical attention. This product must not be used for dyeing the eyelashes or eyebrows - to do so may cause blindness. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-FS-RTECS No. TLV STEL PEL STEL EINECS No. IDLH OTHER CHEMICAL NAME(S) CAS No. % TWA STEL PEAK NA NA NA 60-100 NA NA NF NF NF NA NA NA JPMS PROPRIETARY BLEND BQ9625000 215-647-6 NA 25 NIOSH 1336-21-6 ≤ 10.0 25 35 25 50 NF 25 NA AMMONIUM HYDROXIDE Skin Corr. 1B; H314 203-404-7 SS8050000 NA NA NA NF (0.1) NF (0.1) NA 25 106-50-3 p-PHENYLENEDIAMINE Acute Tox. 3 *; Eye Irrit. 2; Skin Sens. 1; H331, H311, H301 H319, H317 T< 1.0 108-46-3 VG9625000 203-585-2 NA NA NF NF NF NA NA NA RESORCINOL 608-25-3 VH2009500 210-155-8 < 1.0 NA NA NF NF NF NA NA NA 2-METHYLRESORCINOL 90-15-3 NA 201-969-4 < 1.0 NA NA NF NF NF NA NA NA **1-NAPHTHOL** Acute Tox. 4 *; STOT SE 3; Skin Irrit. 2; Eye Dam. 1; H312, H302, H335, H315, H318 2,4-DIAMINOPHENOXYETHANOL 66422-95-5 NA 266-357-1 < 1.0 NA NA NF NF NF NA NA NA HCI 123-30-8 NA 204-616-2 < 1.0 NA NA NF NF NF NA NA NA p-AMINOPHENOL 3 NF 3 6 30 141-43-5 KJ5775000 205-483-3 < 1.0 6 3 NF FTHANOI AMINE Acute Tox. 4 *: Skin Corr. 1B: H332, H312, H302, H314

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SAFETY DATA SHEET Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.3 SDS Revision Date: 7/1/2016 4. FIRST AID MEASURES If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk First Aid Ingestion: IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed Splashes are not likely; however, if product gets in the eyes. Remove contact lenses, if present and easy Eyes: to do, flush with copious amounts of lukewarm water for at least 15 minutes. Continue rinsing. If eye irritation persists: Get medical advice/attention. If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough Skin: washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. Remove victim to fresh air at once. Inhalation: Effects of Exposure: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Ingestion: Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. Eyes: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. None expected. Inhalation: Symptoms of Overexposure: Overexposure in eyes may cause redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals Acute Health Effects: Moderate irritation to eyes. Symptoms of overexposure may include redness, itching, stinging, irritation and watering. Moderate irritation to skin near affected areas. Chronic Health Effects: No harmful or chronic health effects are expected to occur from a single accidental ingestion. Target Organs: Eyes, Skin Medical Conditions Pre-existing dermatitis, other skin conditions, and disorders of the HEALTH Aggravated by Exposure: target organs (eves. skin). FLAMMABILITY **PHYSICAL HAZARDS PROTECTIVE EQUIPMENT** EYES SKIN 5. FIREFIGHTING MEASURES Fire & Explosion Hazards: This product is not flammable. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO₂, and NOx). Extinguishing Methods: Water, Foam, CO₂, Dry Chemical Firefighting Procedures: Fight fires as for surrounding materials. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon and/or nitrogen, hydrocarbons and/or derivatives. Firefighters should wear a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Spills Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Fauipment For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION Work & Hygiene Practices: Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Wash unintentional residues with soap and warm water. Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120°F. Keep away from incompatible substances. Protect containers from physical damage. To avoid unintentional spraying keep cap in place when not in use. Keep away from children at all times! Special Precautions: Spilled material may present a slipping hazard. Clean up all spills promptly.

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OTHER

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Use local or general

SAFETY DATA SHEET Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.3 SDS Revision Date: 7/1/2016 8. EXPOSURE CONTROLS & PERSONAL PROTECTION Exposure Limits: ACGIH NOHSC OSHA ppm (mg/m³) ES-TWA ES-PEAK CHEMICAL NAME(S) TLV STEL ES-STEL PEL STEL IDLH AMMONIUM HYDROXIDE 25 35 25 50 NF 25 NA NA p-PHENYLENEDIAMINE NF NF (0.1) NA 25 NA NA (0.1)ETHANOLAMINE 3 6 NF NF 6 30 3 Ventilation & Engineering General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Controls: exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. Eye Protection: Avoid eye contact. None required under normal conditions of use. When handling large quantities $(e.g., \ge 1 \text{ gallon } (3.8 \text{ L}))$ safety glasses with side shields should be used. Hand Protection: Required under normal conditions of use to prevent staining and keep exposure level to a minimum. Use latex or PVC gloves. When handling large quantities (e.g., \geq 1 gallon (3.8 L)), wear rubber or impervious plastic gloves must be worn. Body Protection: No apron required when handling small quantities. Lab coat or apron should be worn to protect skin and clothing. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water. 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: Cream, white to off-white Odor[.] Ammoniacal odor Odor Threshold: NA pH: NA Melting Point/Freezing Point: 58-62 °C (136.4-143.6 °F) Initial Boiling Point/Boiling NA Range: Flashpoint: NA Upper/Lower Flammability NA Limits: Vapor Pressure: NA Vapor Density NA Relative Density: NA Solubility: Partial Partition Coefficient (log Pow): NA Autoignition Temperature: NA Decomposition Temperature: NA Viscosity NA Other Information: NA 10. STABILITY & REACTIVITY Stability Stable under normal conditions; unstable with heat or contamination. Hazardous Decomposition Oxides of carbon (CO, CO₂), nitrogen (NO_x) and sulfur (SO₂). Products: Hazardous Polymerization: Will not occur. Conditions to Avoid: Open flames, sparks, high heat, incompatible substances and direct sunlight. Incompatible Substances: Avoid extreme heat and ignition sources. Store away from oxidizers. **11. TOXICOLOGICAL INFORMATION** Absorption: YES Routes of Entry: Inhalation: YES Ingestion: YES Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product but is not presented in this document. Acute Toxicity: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea. Chronic Toxicity: This material may aggravate any pre-existing skin condition (e.g., dermatitis) Suspected Carcinogen: This product contains p-Phenylenediamine and Resorcinol, which are not carcinogenic to humans, but are listed as Group 3 carcinogens by the IARC. This product contains p-Phenylenediamine, which is listed by ACGIH in group A4.

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		11. TOXICOLOGICAL INFORMATION – cont'd
1.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.
	Teratogenicity:	This product is not reported to cause teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.
.7	Irritancy of Product:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.
.8	Biological Exposure Indices:	NE
.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
.1	Environmental Stability:	There is no specific data available for this product.
2.2	Effects on Plants & Animals:	There are no specific data available for this product.
2.3	Effects on Aquatic Life:	There are no specific data available for this product.
		13. DISPOSAL CONSIDERATIONS
3.1	Waste Disposal:	
J. I	vvasie Dispusal.	Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal
		regulations. Dispose of in accordance with federal, state and local regulations.
3.2	Special Considerations:	California Waste Code: 331
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		14. TRANSPORTATION INFORMATION
⁻ he	basic description (ID Nur	nber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional
		e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
1.1	49 CFR (GND):	NOT REGULATED
1.2	IATA (AIR):	NOT REGULATED
1.3	IMDG (OCN):	NOT REGULATED
1.4	TDGR (Canadian GND):	NOT REGULATED
1.5	ADR/RID (EU):	NOT REGULATED
4.6	SCT (MEXICO):	NOT REGULATED
4.7	ADGR (AUS):	NOT REGULATED
		15. REGULATORY INFORMATION
5.1	SARA Reporting	
0.1	Requirements:	Ammonium Hydroxide (as ammonia) and p-Phenylenediamine are subject to the reporting requirements of SARA Title III, Sections 312/313.
5.2	SARA Threshold Planning	This product is not subject to the reporting requirements of SARA Title III, Section 302.
5.3	Quantity: TSCA Inventory Status:	All components of this product are listed in the TSCA Inventory or are exempt.
5.4	CERCLA Reportable Quantity	
	(RQ):	Ammonium Hydroxide (Ammonia): 454 kg (1,000 lbs); p-Phenylenediamine: 2,270 kg (5,000 lbs).
5.5	Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR Subchapter G (Cosmetics).
5.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.
	State Regulatory Information:	Ammonium Hydroxide (as ammonia) can be found on the following state criteria lists: Illinois Hazardous Substances List (IL); Massachusetts Hazardous Substances List (MA); New Jersey Right-to-Know List (NJ); Pennsylvania Right-to-Know List (PA); Rhode Island Hazardous Substances List (RI). <u>p-Phenylenediamine</u> is found on the following state criteria list: FL, MA, MN, NJ, PA and WA
5.7		Resorcinol is found on the following state criteria lists: FL, MA, MN, PA, WA and WI. <u>Ethanolamine</u> is found on the following state criteria lists: FL, MA, MN, PA and WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania
.7		Resorcinol is found on the following state criteria lists: FL, MA, MN, PA, WA and WI. <u>Ethanolamine</u> is found on the following state criteria lists: FL, MA, MN, PA and WA. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous

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SDS Revision: 1.3

SDS Revision Date: 7/1/2016

		16. OTHER INFO	ORMATION				
16.1	Other Information:	WARNING! CAUSES MILD SKIN IRRITATION. CAUSES EYE IRRITATION. HARMFUL IF INHALED. For external use only. Use only as directed. Discontinue use immediately if irritation develops Keep away from children. Keep container tightly closed in a cool place. When using do not eat or drink. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. If case of accident or if you feel unwell seek medical advice immediately (show the label where possible). KEEP LOCKED UP AND OUT OF REACH OF CHILDREN. This product is designed and intended for use by a licensed cosmetologist/professional hairdresser only, and carries no warranty expressed or implied if used by others. CAN CAUSE AN ALLERGIC REACTION. Preliminary patch testing is recommended. Tattoos, including black and temporary henna, may increase the risk of allergy, If a severe allergic reaction should occur, immediately seek medical attention. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness.					
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.					
16.3	Disclaimer:	government regulations must be reviewed for Manufacturing, LLC's knowledge, the informatio accuracy, suitability or completeness is not guar provided. The information contained herein rela	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & JPMS n contained herein is reliable and accurate as of this date; however, anteed and no warranties of any type, either expressed or implied, are tes only to the specific product(s). If this product(s) is combined with be considered. Data may be changed from time to time. Be sure to				
16.4	Prepared for:	JPMS Manufacturing, LLC 237 Buttonwood Street Reading, PA 19601 USA Tel: +1 (610) 374-4845 Fax: +1 (610) 373-7101	PAUL MITCHELL				
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate Dangerous Goods Training & Consulting				

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SDS Revision: 1.3

SDS Revision Date: 7/1/2016

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No. Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists				
C	Ceiling Limit				
ES Exposure Standard (Australia)					
IDLH	Immediately Dangerous to Life and Health				
OSHA	U.S. Occupational Safety and Health Administration				
PEL	Permissible Exposure Limit				
STEL	Short-Term Exposure Limit				
TLV Threshold Limit Value					
TWA Time Weighted Average					

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

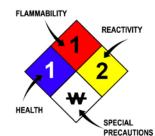
HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

	-	
0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

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Α						G		F			
В						Н		E			
С			Ę,I			I		F			
D	B					J	0	F			
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F			Ę,I			X			uperviso Ig directio		
Sa	fety Glass	es	Splash	Goggles	Ρ		Shield &		GI	oves	5
	Boots		Syntheti	c Apron	Ρ		tive Cloth	ning	Dust R	e spi	rator
Full Face Respirator					ull Face spirator		Airline H or S				
OTHER STANDARD ABBREVIATIONS:											
	ML Maximum Limit										
	mg/m3	milligr	ams per cu	bic meter							
	NA	Not A	vailable								
	ND	Not D	etermined								
	NE	Not E	stablished								
NE Net Established											

HAZARD RATINGS: 0 Minimal Hazard 1 Slight Hazard 2 Moderate Hazard 3 Severe Hazard 4 Extreme Hazard ACD Acidic ALK Alkaline COR Corrosive W Use No Water OX Oxidizer TREFOIL Radioactive



TOXICOLOGICAL INFORMATION:

	FRECAUTORS
LD 50	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC 50	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{lo} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NOHSC	National Occupational Health and Safety Commission (Australia)
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

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С	E	F	Ν	0	т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\diamondsuit		
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment

ppm parts per million SCBA Self-Contained Breathing Apparatus NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

NF Not Found NR No Results

FLAMMABILITY LIMITS IN AIR:							
Autoignition	Autoignition Minimum temperature required to initiate combustion in air with no other						
Temperature	source of ignition						
LEL	L Lower Explosive Limit - lowest percent of vapor in air, by volume, that will						
	explode or ignite in the presence of an ignition source						
UEL							
	explode or ignite in the presence of an ignition source						