



DB150

USER MANUAL



Toll Free: 1 800-727-5707 | International: 713-869-2227 | www.DustlessBlasting.com

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MSDS

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International Distributors are
Responsible for Translation of
the Manual.

Please Read and Understand
manual fully prior to operating
any machinery.

IMPORTANT

(Pertinent to blast machines)

WARNING

Before operating any abrasive blast cleaning equipment READ ALL operating and maintenance instructions. Personal protective equipment is REQUIRED when using this type of equipment. Operator MUST be equipped with heavy canvas or leather gloves, aprons, and arm protectors. Safety shoes and hearing protection MUST be worn when required. NIOSH approved air fed respirators (helmets) furnished with at least Grade D breathing air MUST be used. for protection against dust inhalation. Air MUST be filtered and monitored for Carbon Monoxide.

DANGER

Use of Abrasive cleaning equipment with silica sands may produce a heavy concentration of silica dust. Breathing this dust can produce "Silicosis", a permanent lung disease. Depending upon the object to be cleaned, blasting, even with non-silica abrasives, may release hazardous dust particles into the air that can cause permanent lung damage. Failure to use NIOSH approved air fed respirator (helmet) may cause SERIOUS lung DAMAGE. This warning, as to the proper use of an approved respirator (helmet), applies not only to the operator, but extends to all those working in or around the blasting area, such as pot tenders, painters, supervisors, etc.

CAUTION

Blast cleaning equipment and components are subjected to wear and deterioration.

- Keep your equipment in good operable condition.
- MAINTAIN nozzle control at all times during operation.
- INSPECT machine, nozzles, hoses, and couplings.
- WIRE all kwik-fit hose couplings together.
- Inspect, clean, or replace helmet lens and filters frequently.
- Ground equipment to AVOID electrical shock.
- DO NOT operate any machine without thorough knowledge of machine operation.

Carefully READ the INSTALLATION, OPERATING, AND MAINTENANCE directions supplied with the machine from the factory. If you do not have a copy, please contact your employer (supervisor) or MMLJ Inc.

IMPORTANTE

(Relativo a todas maquinas)

ADVERTENCIA

Antes de operar cualquiera de los equipos de limpieza con chorro abrasivo, LEA TODOS las instrucciones de operacion y mantenimiento. ES OBLIGATORIO usar equipo protector personal al manejar este tipo de equipos. El Operador DEBE. estar equipado con guantes, delantales y protectores de brazos de cuero 0 lona pesada. DEBEN usarse zapatos de seguridad y proteccion para los oidos cuando aSI se exija. Los respiradores (cascos) alimentados por aire, aprobados por NIOSH y que esten previstos de por 10 menos aire respi rable de Grado D, DEBEN ser usados como proteccion contra la inhalacion de polvo. El aire DEBE ser filtrado y controlado para detectar monoxide de carbono.

PELIGRO

Es posible que el uso de los equipos de limpieza por abrasion con arenas sillceas provoque una concentracion pesada de polvo sillceo. Este polvo, al ser respirado, puede producir "silicosis", que es una enfermedad pulmonar permanente. Dependiendo del objeto que va a limpiarse, es posible que la limpieza a chorro, aun con abrasives no sillfceos, provoque el escape de partculas de pohio pel igrosas en el aire que pueden causar dano pulmonar permanente. Si nose usan los respiradores (cascos) alimentados por aire, aprobados por NIOSH, puede provocarse un GRAVE DANO a los pulmones. Esta advertencia sobre el uso adecuado de un respirador (casco) aprobado no solo se aplica al operador sino que comprende a todos aquellos que trabajan en el area de limpieza a chorro, 0 al rededor de la misma, como por ejemplo los que vigilan los recipientes, los pintores, supervisores, etc.

PRECAUCION

El equipo de limpieza a chorro y sus componentes estan sujetos a desgaste y deterioro.

- Mantenga su equipo en buenas condiciones de operacion,
- MANTENGA el control de la boquilla en todo momento durante la operacion.
- INSPECCIONE !a maquina, las boquillas, las mangueras y las uniones.
- ALAMBREjuntas todas las uniones de la manguera de rapido ajuste.
- Inspeccione, limpie 0 reemplace los lentes y fi ltros del casco frecuentemente.
- Conecte el equipo a tierra para EVITAR un shock electrico.
- NO opere ninguna maquina sin tener un detallado conocimiento de la operacion de la misma.

LEA cuidadosamente las instrucciones de INSTALACION, OPERACION Y MANTENIMIENTO que vienen incluidas de fabrica con la maquina. Si no tiene una copia, sllrvase comunicarse con su empleador (supervisor) 0 con MMLJ Inc.

INSTALLATION AND OPERATING INSTRUCTIONS

PLEASE READ CAREFULLY BEFORE OPERATING

DB150

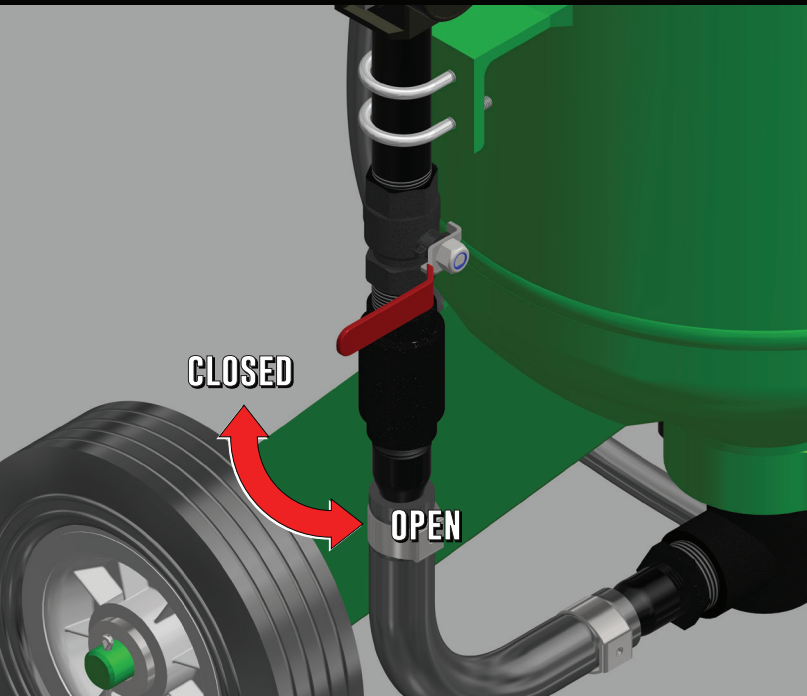
OPERATING INSTRUCTIONS



This system will mix clean water, rust inhibitor, and abrasive together. The **DB150** is designed to hold:

- 5 gallons of clean water
- 7 oz of Rust Inhibitor
- .75 Cubic Foot of Abrasive, mesh size approx. 50/70 (*50 lbs if using Crushed Glass*)

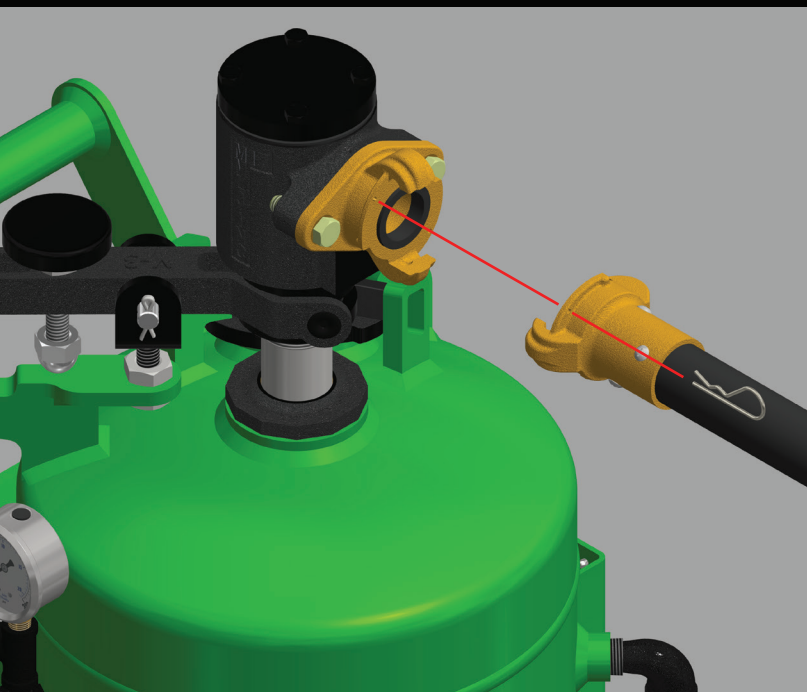
1. Close Inlet Valve



2. Open Blow Down Valve



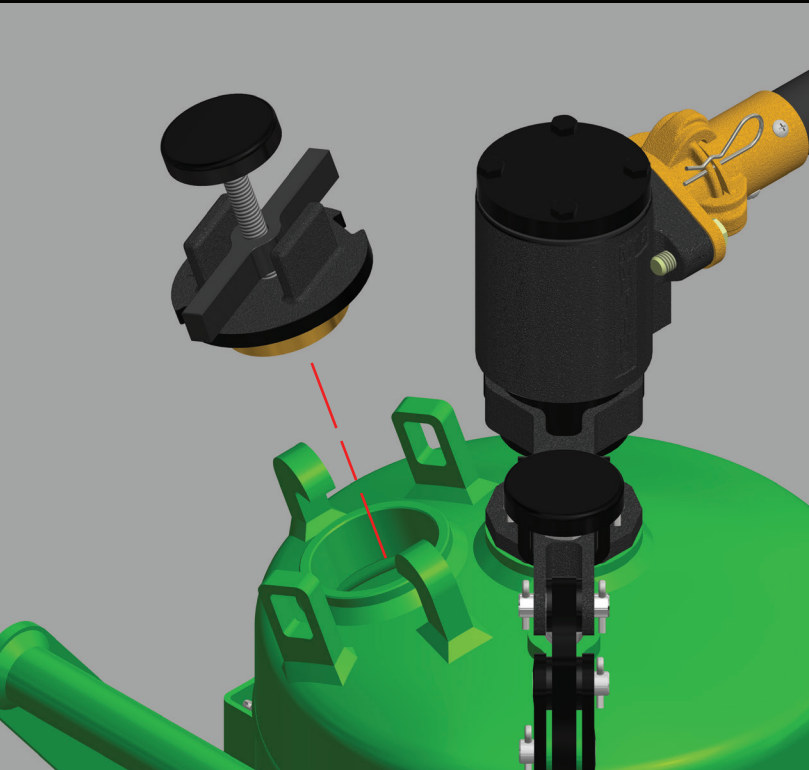
3. Connect 50' Blast Hose to the coupling on top of the machine.



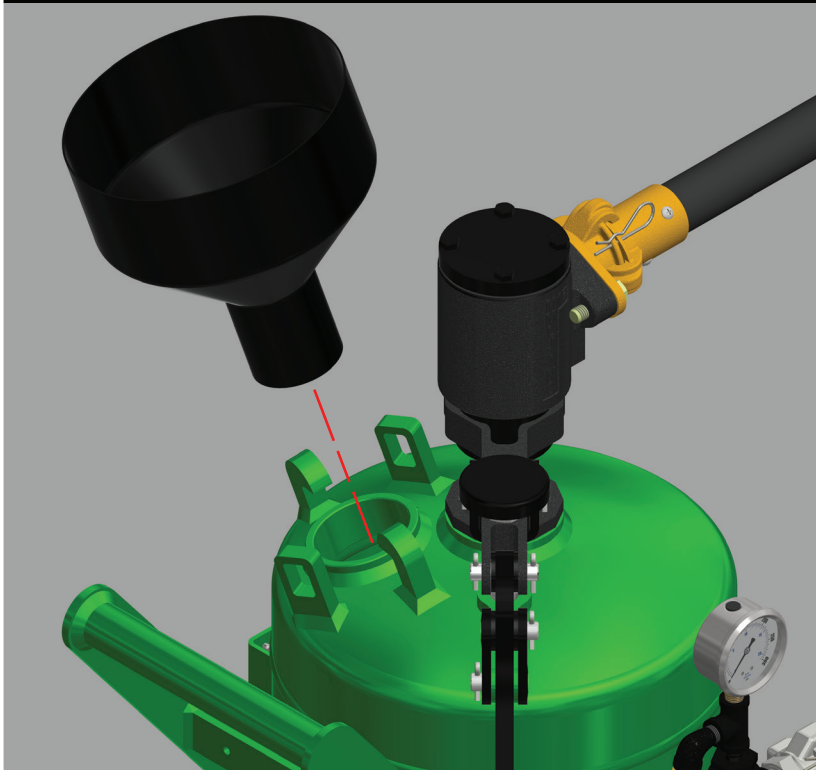
4. Connect Compressor Hose



5. Remove Fill Cap

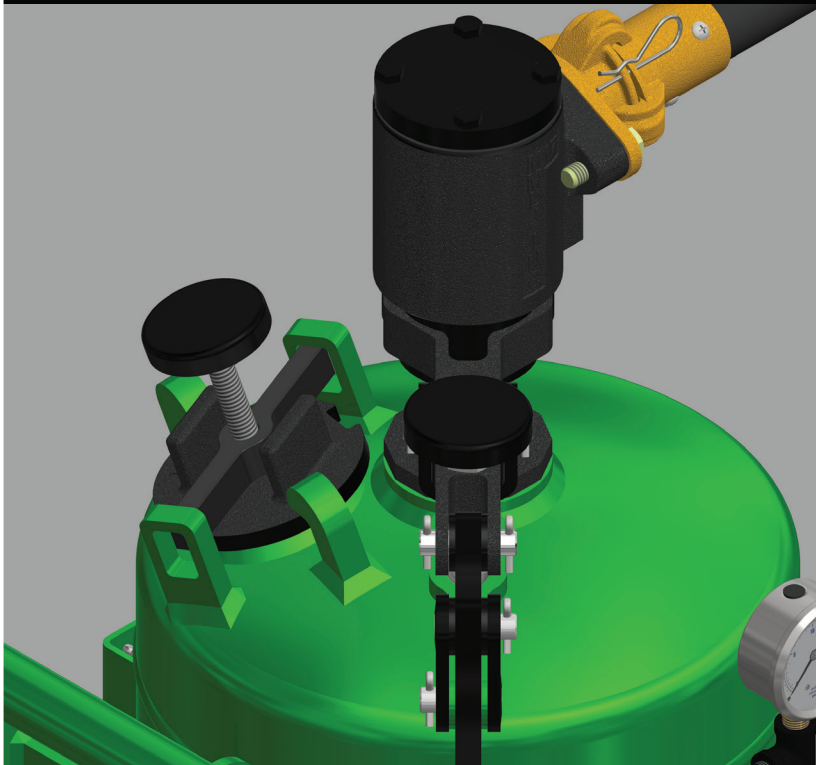


6. Insert Fill Funnel



- 7. Pour 5 Gallons of Water into the DB150
- 8. Pour 7 oz of Rust Inhibitor into the DB150
- 9. Add 50 lbs of Abrasive
- 10. Remove Fill Funnel

11. Replace and Secure Fill Cap.



READ the **INSTALLATION**, **OPERATING** and **MAINTENANCE** directions supplied with the machine from the factory. Contact MMLJ, Inc. at **(800) 727-5707**, or email support@dustlessblasting.com



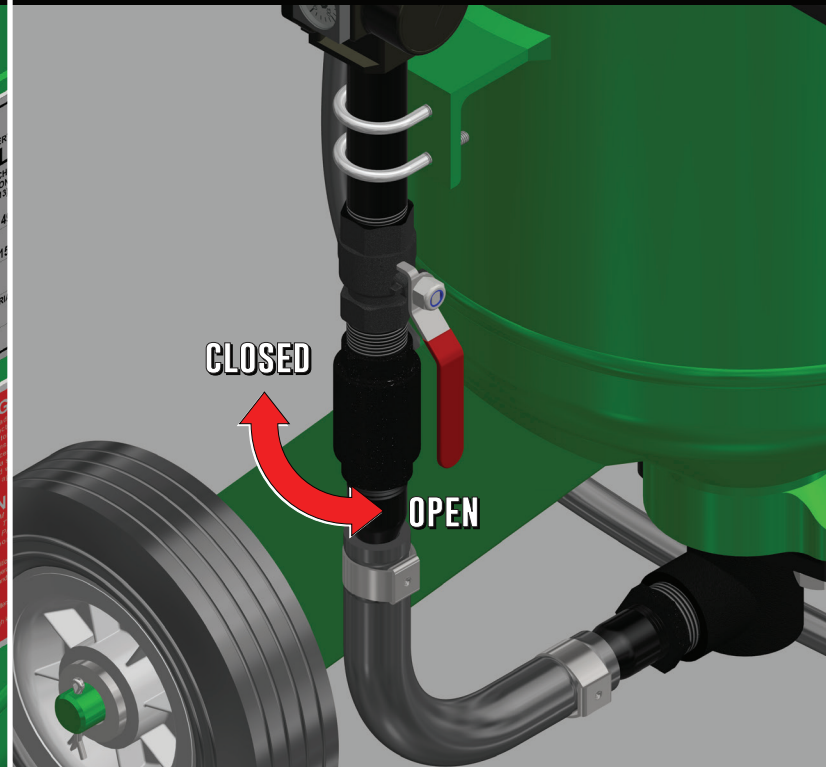
TO BLAST



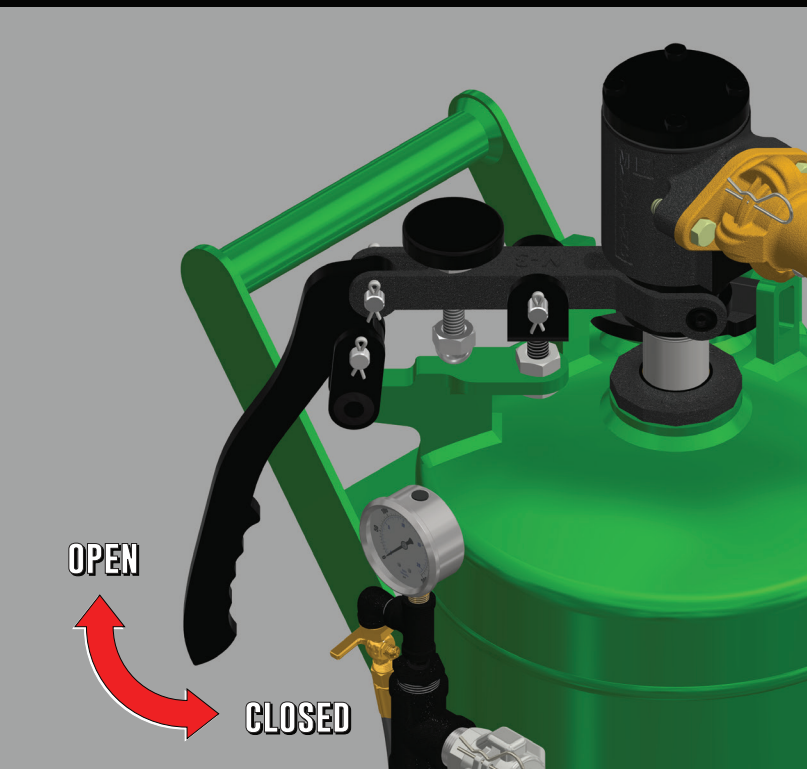
12. Blow Down Valve should be closed



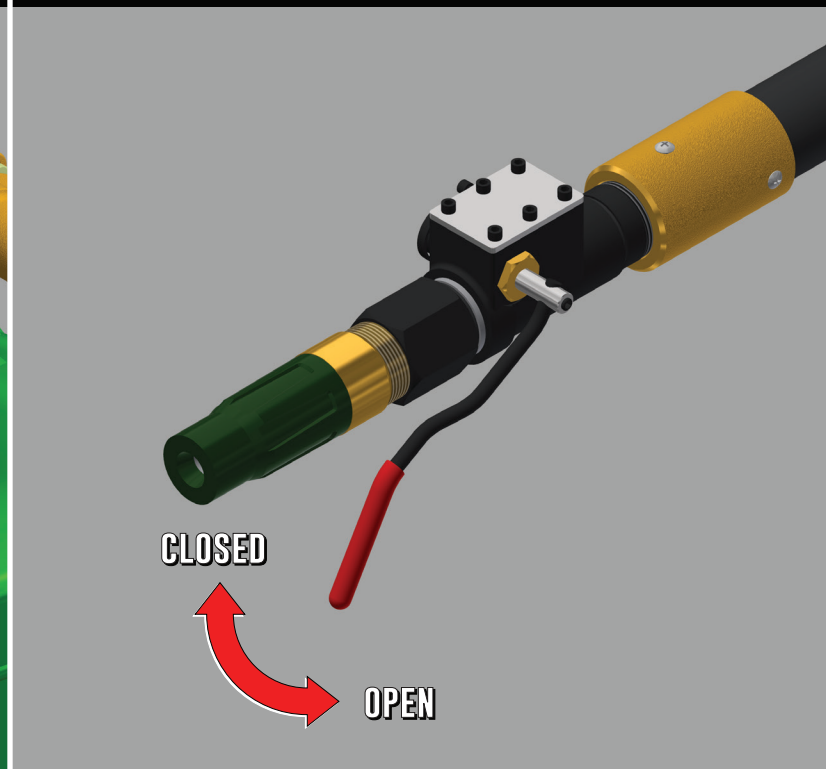
13. Air Inlet should be open



14. Open Abrasive Lever to approximately 1/2"



15. Pull back lever on Nozzle Head Shutoff



To stop blasting, let go of lever. To shut down, close air inlet valve and open blow down valve. During blasting, keep Nozzle Head Shutoff facing upwards as shown to prevent eventual damage to mechanism.

MAINTENANCE INSTRUCTIONS

READ CAREFULLY BEFORE OPERATING.

If leaving unit for extended period of time blast water and media out of machine
OR

- Fully depressurize machine
- Remove 2 bolts from bottom of machine
- Remove 2 “ears” from bottom
- Remove air inlet jet (looks like a pilgrim hat)
- Remove gasket
- Push casting and air hose out of the way
- Flush out inside of equipment with water

Once media and water are out of machine, reverse procedure:

- Put gasket on air inlet jet
- Insert air inlet jet and gasket
- Put casting up to bottom of machine
- Use ears and bolts to secure casting

***It is the responsibility of the owner / operator
to install a pressure relief valve.***

Visually and physically inspect blast hose for any weak spots. Replace when necessary. Please call the manufacturer directly with any additional maintenance questions at **1-800-727-5707** or email **support@dustlessblasting.com**

VIDEO TRAINING RESOURCES

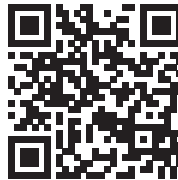
Tired of reading? Most of our training is available in video format! Scan the QR codes below to watch the corresponding videos or visit www.DustlessBlasting.com/training to see all topics.



OVERVIEW - How to use the DB150



Adjust Blast Pressure



Adjust Media Flow



Using Rust Inhibitor



About Blast Pressures



About Blast Media

DUSTLESS BLASTER CAPACITY CHART (Based on media weighing 72 lbs/ft³)

MODEL	DB150	DB225	DB500	DB800	DB1500	DB3000
WATER (gallons)	5	10	20	30	75	150
ABRASIVE (lbs)	50	100	200	300	750	1500
RUST INHIBITOR	7 oz	14 oz	28 oz	42 oz	100 oz	1.5 Gallon

ITEM NO.	DESCRIPTION	PART NO.	STOCK NO.	QTY
★ 1	Fill Funnel		134125/001	1
★ 2	Fill Cap Hold Down Screw	AB-8	73464/001	1
3	Fill Cap Hold Down Bar	C-11-1	131066/001	1
★ 4	Fill Cap	C-14-1	131414/001	1
★ 5	Fill Cap Gasket	C-13	131142/001	1
★ 6	Abrasive Control Lever	AB-9	73500/001	1
6A	Abrasive Control Lever Washer		FBA	4
★ 7	Connecting Link with Cotter Pins	AB-10	131133/001	1
★ 8	Rocker Arm Adjusting Screw	AB-8	73464/001	1
8A	Rocker Arm Acorn Nut	AB-8-N	134687/001	1
★ 9	Rocker Arm	M-3	73481/001	1
★ 10	Abrasive Lever Clevis Pin with Cotter Pins	AB-11-S	131070/002	1
★ 11	Pedestal Clevis Pin with Cotter Pins	AB-12-S	131069/001	1
★ 12	Rocker Arm HInge Yoke	AB-75	131113/001	1
13	Pedestal Locking Nut/Fill Cap Hold-Down Screw Locking Nut	AB-75-C	22926/001	2
14	Rocker Arm Hinge Yoke Adjusting Nut	AB-75-E	131094/001	1
★ 15	1/2" Blow Off Valve	C-30-AV-1	131385/001	1
16	1/2" Close Nipple		78251/001	1
17	1/2" 90 Degree Street Elbow	C-30-L-1	131869/001	1
★ 18	Outlet Elbow Assembly Complete	M-17	72974/001	1
★ 18A	Outlet Elbow Cap Bolts (4)	M-17-D	82563/001	1
★ 18B	Outlet Elbow Cap	M-17-C	131054/001	1
★ 18C	Outlet Elbow Cap Gasket	M-17-G	131227/001	1
★ 18D	Outlet Elbow Insert Gasket	M-23-G	131147/001	1
★ 18E	Outlet Elbow Insert	M-23	73602/001	1
★ 18F	Outlet Elbow Body	M-17-B	80789/001	1
19	Elbow Adapter Flat Gasket	KF-17-G	131149/001	1
20	Elbow Adapter with Gasket	KF-17	80790/001	1
21	KF Series Coupling Gasket	KFG	131148/001	1
22	Elbow Adapter Bolt	KF-17-G	23858/001	2
★ 23	Coupling Nut	M-5-1	131102/001	1
★ 24	Coupling Nut Gasket	M-13	131226/001	1
★ 25	Gasket	M-5-G	131867/001	1
★ 25A	Seal (manufactured after 05/15/13)	M-6-S	131226/002	1
★ 26	28" Outlet Pipe (1 5/8" O.D.)	NS-58-OP	131092/001NS	1
27	Air Inlet Assembly	HC-30-PR	72886/001	1
★ 27A	Gauge	2	134366/001	1
27B	1/4" Tee	SB-30-G	131865/001	1
27C	1/4" Close Nipple	RC-19	77094/001	1
27D	3/4" x 1/4" Bushing		131839/001	1
27E	3/4" Tee		131866/001	1
★ 27F	3/4" Crowfoot	HC-30-T	132172/001	1
27G	Crowfoot Gasket		73850/001	1
27H	3/4" x 3" Nipple	M-G-2	131392/001	1
★ 27J	3/4" Regulator		132055/001	1
27K	U-Bolt with Nuts		131585/001	2
27L	3/4" x 4" Nipple	HC-29-3M	131392/001	1
★ 27M	3/4" Ball Valve	HC-30-N	70239/001	1
27N	3/4" Close Nipple	AB-61-C	131859/001	1
27P	3/4" Check Valve	RC-23	133051/001	1
★ 27Q	3/4" Hose Assembly		72846/002	1
27R	3/4" x 1" Bushing		131860/001	1

ITEM NO.	DESCRIPTION	PART NO.	STOCK NO.	QTY
27S	1/4" 90 Degree Street Elbow	AB-61-A	73813/001	1
★ 27T	1/4" Air Cock	RC-16	73163/001	1
28	Air Inlet Body Lug Bolts (2)	WH-21-C	23879/005	1
29	Air Inlet Body Lug	AB-47	131231/001	2
30	Air Inlet Body	ABHD-1	73478/001	1
31	1/4" Air Inlet Nozzle	SB-1-NHD	134354/002	1
32	Air Inlet Body Gasket	AB-1-G	131228/001	1
33	Wheel Washer	C-33-W	72849/001	2
34	Wheel Cotter Pin	C-33-C	72848/001	2
35	Wheel	C-31-2	133730/001	2
36	1/2" 300# 90 Degree Elbow	C-16-T	132706/001	1
37	1/2" x 4" Nipple		131929/001	1
38	Vibrator Bolt, Washer, Lock Washer & Nut			2
39	Vibrator		133881/002	1
40	1/4" 90 Degree Street Elbow	RC-16	73813/001	1
41	3/8" x 35" Air Hose Assembly	RC-16	134798/007	1

04/01/2016
Revised

★ These parts are manufactured only by MMLJ, Inc. and are not available locally.

THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS

*Certificate of Authorization
to Register*



This is to certify that

MMLJ, Inc.
5711 Schurmier Road
Houston, Texas 77048

*is authorized to apply the "NB" mark and register boilers,
pressure vessels or other pressure retaining items with the
National Board.*

*The scope of Authorization is limited to items manufactured
in accordance with:*

ASME Designator(s): U, UM

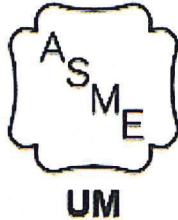
Issue Date: July 23, 2015

*This Certificate of Authorization to Register will remain in
effect as long as the manufacturing organization holds a
valid Certificate of Authorization issued by the American
Society of Mechanical Engineers.*

Executive Director

A handwritten signature in black ink, appearing to read 'D. A. ...'.





CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

**MMLJ, Inc.
5711 Schurmier Road
Houston, Texas 77048**

SCOPE:

Manufacture of miniature pressure vessels at the above location only

AUTHORIZED:

December 28, 2015

EXPIRES:

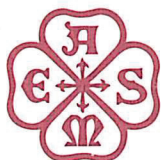
February 28, 2017

CERTIFICATE NUMBER:

23,239

Board Chair, Conformity Assessment

Director, Conformity Assessment



MATERIAL SAFETY DATA SHEET



Date Prepared : 04/02/2015

SDS No : 2014-01

Date Revised : 09/09/2015

Revision No : 3

1. PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: Abrasives, roofing products and other aggregate uses

PRODUCT DESCRIPTION: BLACK BEAUTY® GLASS

PRODUCT FORMULATION NAME: Abrasive

GENERIC NAME: BLACK BEAUTY® GLASS

MANUFACTURER

Harsco Corporation
Metals & Minerals
5000 Ritter Road
Suite 205
Mechanicsburg, PA 17055
Emergency Contact: EHS Manager
Emergency Phone: 717-506-4666
Alternate Emergency Phone: 888-733-3646
E-Mail: reedcs@harsco.com

24 HR. EMERGENCY TELEPHONE NUMBERS

855-393-9889
Access Code 13793

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Not Classified.

Environmental:

Not Classified.

Physical:

Not Classified.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Solid

IMMEDIATE CONCERNS: Crushed glass consists of glass fragments that are not flammable, combustible or explosive; and pose no unusual hazard in their unused condition. During use for abrasive blasting, the dust may irritate the respiratory tract, skin and eyes; and may cause inflammation and pulmonary fibrosis.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Silica, Amorphous	70 - 80	60676-86-0
Sodium Oxide	10 - 15	1313-59-3
Calcium Oxide	5 - 10	1305-78-8
Aluminum Oxide	1 - 2	1344-28-1
Potassium Oxide	0.1 - 1	12136-45-7
Magnesium Oxide	0.1 - 1	1309-48-4
Iron Oxide	0.1 - 1	1309-37-1
Silica, Crystalline	< 1	14808-60-7

4. FIRST AID MEASURES

EYES: Do not rub eyes. Remove contact lenses. Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation continues, continue flushing for 15 minutes, rinsing from time to time under the eyelids. If discomfort continues, consult a physician.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Rinse mouth thoroughly if ingested. Do not induce vomiting. If discomfort continues, consult a physician.

INHALATION: Move to fresh air. If discomfort continues, consult a physician.

NOTES TO PHYSICIAN: Treat symptomatically.

COMMENTS: Show this Safety Data Sheet to physician in attendance.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: This product is non-combustible.

GENERAL HAZARD: None known

EXTINGUISHING MEDIA: Use fire-extinguishing media appropriate for surrounding materials.

FIRE FIGHTING PROCEDURES: Move product containers from fire area if it can be done without risk. Cool containers by flooding with water until heat is dissipated.

HAZARDOUS DECOMPOSITION PRODUCTS: None known

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILL: Avoid runoff into storm sewers and ditches that lead to waterways. Collect spillage using a vacuum equipped with a HEPA filter. If not possible, gently moisten before collecting with shovel and broom. Dispose of collected materials in accordance with Federal, State and local regulations.

GENERAL PROCEDURES: Never return spillage and clean-up materials to original product containers.

RELEASE NOTES: In the unused form, the material is non-hazardous as defined in state and federal regulations.

COMMENTS: Ensure clean-up is conducted by trained personnel wearing appropriate respiratory protection. Avoid inhalation of dust and contact with skin and eyes. Ventilate area if there is excessive airborne dust.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid inhalation of dust and contact with skin and eyes. Use only with adequate ventilation. Use work methods that minimize dust production. Keep workplace clean. Observe good industrial hygiene practices.

HANDLING: Follow Safety Data Sheet and label precautions.

STORAGE: Keep container tightly closed. Store away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Silica, Amorphous	TWA	20 mpp [1]	80 / %SiO ₂ [1]	[2]	10 [2]
Calcium Oxide	TWA		5		2
Aluminum Oxide	TWA	[3]	15 [3]		1 R as aluminum metal
Magnesium Oxide	TWA		15 as magnesium oxide fume		10 I
Iron Oxide	TWA		10 as iron oxide fume		5
Silica, Crystalline	TWA	[4]	10 / (%SiO ₂ + 2) [4]		0.025 R
Footnotes: 1. mpp is millions of particles per ft ³ 2. ACGIH TLV for Particles Not Otherwise Specified is 10 mg/m ³ for inhalable particles and 3 mg/m ³ for respirable particles. 3. PEL is 15 mg/m ³ total dust and 5 mg/m ³ respirable particles (as aluminum metal) 4. Respirable PEL = 10 mg/m ³ / (%SiO ₂ + 2) and Total Dust PEL = 30 mg/m ³ / (%SiO ₂ + 2)					

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields. Use tight fitting goggles if dust is generated.

SKIN: Use protective gloves. Wear suitable protective clothing.

RESPIRATORY: Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

WORK HYGIENIC PRACTICES: Wash hands after handling. Routinely wash work clothing and protective equipment. Handle in accordance with good industrial hygiene and safety practice.

COMMENTS: Proper and safe use of the material is solely the purchaser's responsibility. The manufacturer extends no warranties and makes no representations as to the suitability of the product for the purchaser's intended purpose or the consequences of purchaser's actions.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: None

APPEARANCE: Crushed glass.

COLOR: Variable. Multi-colored glass.

pH: Not Available

FLASH POINT AND METHOD: Not Available

FLAMMABLE LIMITS: Not Available

VAPOR PRESSURE: Approximately zero

VAPOR DENSITY: NA = Not Applicable

BOILING POINT: Not Available

FREEZING POINT: Not Available

MELTING POINT: 1580 degree C

SOLUBILITY IN WATER: Practically insoluble

EVAPORATION RATE: NA = Not Applicable

SPECIFIC GRAVITY: 2.5

VISCOSITY: Not Available

COMMENTS: For additional information contact manufacturer.

10. STABILITY AND REACTIVITY

STABILITY: This product is stable and non-reactive under normal conditions of use, storage and transport.

CONDITIONS TO AVOID: None known

POSSIBILITY OF HAZARDOUS REACTIONS: None

HAZARDOUS DECOMPOSITION PRODUCTS: None known

INCOMPATIBLE MATERIALS: Hydrofluoric acid

11. TOXICOLOGICAL INFORMATION

ACUTE

NOTES: Abrasive blasting agents may cause inflammation and pulmonary fibrosis. Ingestion of dusts generated during working operations may cause nausea and vomiting.

EYE EFFECTS: May cause eye irritation.

SKIN EFFECTS: May cause skin irritation.

CHRONIC: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

CARCINOGENICITY

IARC: Glass (CAS No. 60676-86-0) is listed as Group 3 - no evidence that it causes cancer.

NTP: Glass (CAS No. 60676-86-0) is not listed by the National Toxicology Program in their Annual Report.

OSHA: Glass (CAS No. 60676-86-0) is not listed by NIOSH on their Occupational Cancer List.

Notes:

ACGIH Carcinogens

- Aluminum oxide (CAS 1344-28-1) A4 Not classifiable as a human carcinogen.
- Glass (CAS 60676-86-0) is not listed by ACGIH.
- Iron oxide (CAS 1309-37-1) A4 Not classifiable as a human carcinogen.
- Magnesium oxide (CAS 1309-48-4) A4 Not classifiable as a human carcinogen.
- Silicon dioxide, crystalline (CAS 14808-60-7) A2 Suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

- Iron oxide (CAS 1309-37-1) 3 Not classifiable as to carcinogenicity to humans.
- Silicon dioxide (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.
- Silicon dioxide, crystalline (CAS 14808-60-7) Group 1. Monographs 68 and 100C (2012).

US NTP Report on Carcinogens: Known Carcinogen

- Silicon dioxide, crystalline (CAS 14808-60-7) Known To Be Human Carcinogen.

CORROSIVITY: None known

SENSITIZATION: Not a skin or respiratory sensitizer.

NEUROTOXICITY: None known

GENETIC EFFECTS: None known

REPRODUCTIVE EFFECTS: None known

TARGET ORGANS: Irritation of nose and throat. Irritation of eyes and mucous membranes. May cause respiratory tract irritation. Shortness of breath.

TERATOGENIC EFFECTS: None known

MUTAGENICITY: None known

COMMENTS: Although manufacturer has taken reasonable care in the preparation of this Safety Data Sheet, no warranties are made. Manufacturer makes no representations and assumes no responsibility as to the accuracy or suitability of the Safety Data Sheet for the applications intended by the purchaser.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

ECOTOXICOLOGICAL INFORMATION: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

BIOACCUMULATION/ACCUMULATION: This product is not bioaccumulating.

DISTRIBUTION: Not Available

AQUATIC TOXICITY (ACUTE): None known

CHEMICAL FATE INFORMATION: Not Available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with all applicable regulations.

GENERAL COMMENTS: TCLP testing of unused product indicates that it is not hazardous waste by characteristic.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

OTHER SHIPPING INFORMATION: Unused product is not regulated as a hazardous material by DOT.

COMMENTS: Unused product is not regulated as dangerous goods by the International Air Transport Association (IATA), International Maritime Dangerous Goods (IMDG) or Transport Canada (TDG).

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Hazardous Chemical.

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** Yes

313 REPORTABLE INGREDIENTS: Aluminum oxide (CAS 1344-28-1)

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Silica, Amorphous	60676-86-0
Sodium Oxide	1313-59-3
Calcium Oxide	1305-78-8
Aluminum Oxide	1344-28-1
Potassium Oxide	12136-45-7
Magnesium Oxide	1309-48-4
Iron Oxide	1309-37-1
Silica, Crystalline	14808-60-7

TSCA STATUS: Glass (CAS No. 60676-86-0) is listed on the TSCA Chemical Substance Inventory.

CLEAN AIR ACT

40 CFR PART 68—RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: None

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119—PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None

CALIFORNIA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

RCRA STATUS: Not regulated.

OSHA HAZARD COMM. RULE: Regulated.

CLEAN WATER ACT: Not covered by any water quality criteria under Section 304.

CARCINOGEN: Glass (CAS No. 60676-86-0) is not listed by IARC, NIOSH or the NTP as a known or suspected carcinogen. However based upon the presence of crystalline silica, the product would be classified as a Category 2 Carcinogen pursuant to the GHS Classification System.

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION

Not Controlled.

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Not controlled.

WHMIS CLASS: This product has been classified in accordance with the hazard criteria of the CPR and the Safety Data Sheet contains all of the information required by the CPR.

DOMESTIC SUBSTANCE LIST (INVENTORY): Listed on Inventory.

MEXICO This Safety Data Sheet has been prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).

16. OTHER INFORMATION

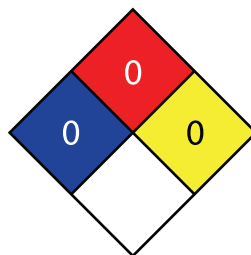
Date Revised: 09/09/2015

REVISION SUMMARY: This SDS replaces the 09/09/2015 SDS. Revised: **Section 16: HMIS RATING - HEALTH.**

HMIS RATING

HEALTH		0
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		A

NFPA CODES



SAFETY DATA SHEET

MMLJ INC.

Product name: RUST INHIBITOR

Issue Date: 03/11/2015

Print Date: 03/12/2015

THE MMLJ, INC. encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. **We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions**

1. IDENTIFICATION

Product name: RUST INHIBITOR

Recommended use of the chemical and restrictions on use
Identified uses: .

COMPANY IDENTIFICATION

MMLJ, INC.

5711 SCHURMEIR ROAD

HOUSTON, TX 77048

UNITED STATES

Customer Information Number:

713-869-2227

EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: INFOTRAC 352-323-3500

Local Emergency Contact: 713-869-2227

2. HAZARDS IDENTIFICATION

Hazard classification

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards

no data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: alkanolamine

This product is a substance.

Component

CASRN

Concentration

Triethanolamine	102-71-6	< 30.0 %
N,N-Diethanolamine	111-42-2	<= 0.5 %
WATER	7732-18-5	>50%

4. FIRST AID MEASURES

Description of first aid measures

General advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Skin contact: Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

Eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: No emergency medical treatment necessary.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Unsuitable extinguishing media: Do not use direct water stream. May spread fire.

Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Large spills: Dike area to contain spill. Pump into suitable and properly labeled containers. Small spills: Dilute with water. Recover spilled material if possible. Absorb with materials such as: Non-combustible material. Sand. Remove with shovel. Collect in suitable and properly labeled containers. Contain spilled material if possible. See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Thaw and mix well before using. Avoid contact with eyes. Wash thoroughly after handling. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage: Avoid freezing. Store under an oxygen-free nitrogen atmosphere. Store in a dry place. Avoid moisture.

Storage stability

Storage temperature: 30 - 43 °C (86 - 109 °F)

Storage Period:, Metal drums., Plastic drums., Steel drums. 24 Month

Storage Period:, Bulk 6 Month

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Triethanolamine	ACGIH	TWA	5 mg/m ³
N,N-Diethanolamine	Dow IHG	TWA	0.2 mg/m ³
	Dow IHG	TWA	Absorbed via skin
	ACGIH	TWA Inhalable fraction and vapor	1 mg/m ³
	ACGIH	TWA	Absorbed via skin

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye/face protection: Use safety glasses (with side shields).

Skin protection

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other protection: When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

The following should be effective types of air-purifying respirators: Organic vapor cartridge.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

Liquid.

Color

Colorless to yellow

Odor

Ammoniacal

Odor Threshold	No test data available
pH	No test data available
Melting point/range	Not applicable to liquids
Freezing point	20.5 °C (68.9 °F) <i>Literature</i>
Boiling point (760 mmHg)	336.1 °C (637.0 °F) at 1,013.25 hPa <i>Literature</i>
Flash point	closed cup 179 °C (354 °F) <i>Literature</i>
Evaporation Rate (Butyl Acetate = 1)	0.01 <i>Literature</i>
Flammability (solid, gas)	Not applicable to liquids
Lower explosion limit	No test data available
Upper explosion limit	No test data available
Vapor Pressure	< 0.0002 mmHg at 21 °C (70 °F) <i>Literature</i>
Relative Vapor Density (air = 1)	5 <i>Literature</i>
Relative Density (water = 1)	1.126 at 20 °C (68 °F) / 20 °C <i>Literature</i>
Water solubility	> 1000 g/L at 20 °C (68 °F) <i>Literature</i> Miscible in all proportions
Partition coefficient: n-octanol/water	log Pow: -2.3 <i>Measured</i>
Auto-ignition temperature	324 °C (615 °F) <i>Literature</i>
Decomposition temperature	No test data available
Dynamic Viscosity	934 mPa.s at 20 °C (68 °F) <i>Literature</i>
Kinematic Viscosity	No test data available
Explosive properties	No
Oxidizing properties	No
Liquid Density	1.125 g/cm ³ at 20 °C (68 °F) <i>Literature</i>
Molecular weight	149.19 g/mol <i>Literature</i>
Percent volatility	no data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Reactivity: no data available

Chemical stability: Stable under recommended storage conditions. See Storage, Section 7.
Hygroscopic

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Exposure to elevated temperatures can cause product to decompose.
Generation of gas during decomposition can cause pressure in closed systems. Avoid moisture.

Incompatible materials: Avoid contact with: Nitrites. Strong acids. Strong oxidizers. Product may potentially react with various halogenated organic solvents, resulting in temperature and/or pressure increases. Corrosive when wet. Heating above 60°C in the presence of aluminum can result in corrosion and generation of flammable hydrogen gas. Avoid unintended contact with: Halogenated hydrocarbons.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials.

11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Acute toxicity

Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

LD50, Rat, 6,400 mg/kg

Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50, Rabbit, > 2,000 mg/kg No deaths occurred at this concentration.

Acute inhalation toxicity

At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. Based on the available data, respiratory irritation was not observed.

Skin corrosion/irritation

Brief contact is essentially nonirritating to skin.

Repeated exposure may cause irritation, even a burn.

Serious eye damage/eye irritation

May cause slight eye irritation.

Corneal injury is unlikely.

Sensitization

Skin contact may cause an allergic skin reaction in a small proportion of individuals.

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Carcinogenicity

Findings from a chronic skin painting study by NTP include liver tumors in mice. Mechanistic studies indicate that tumor formation is of questionable relevance to humans. Is not classified as a human carcinogen.

Teratogenicity

Has been toxic to the fetus in laboratory animals at doses toxic to the mother. However, the relevance of this to humans is unknown. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

Reproductive toxicity

No relevant data found.

Mutagenicity

In vitro genetic toxicity studies were negative.

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

COMPONENTS INFLUENCING TOXICOLOGY:**Triethanolamine****Acute inhalation toxicity**

Based on the available data, respiratory irritation was not observed. No deaths occurred following exposure to a saturated atmosphere.

N,N-Diethanolamine**Acute inhalation toxicity**

LC0, Rat, male, 4 Hour, Aerosol, 3.35 mg/l

Carcinogenicity**Component**

N,N-Diethanolamine

List

IARC

ACGIH

Classification

Group 2B: Possibly carcinogenic to humans

A3: Confirmed animal carcinogen with unknown relevance to humans.

12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

Toxicity**Acute toxicity to fish**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms.

LC50, Pimephales promelas (fathead minnow), flow-through test, 96 Hour, 11,800 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates

EC50, Ceriodaphnia dubia (water flea), static test, 48 Hour, 609.9 mg/l, OECD Test Guideline 202 or Equivalent

Acute toxicity to algae/aquatic plants

ErC50, alga Scenedesmus sp., static test, 72 Hour, Growth rate inhibition, 512 mg/l, OECD Test Guideline 201 or Equivalent, Test substance: Neutralised product

Toxicity to bacteria

EC50, activated sludge, 3 Hour, > 1,000 mg/l, OECD 209 Test

Chronic aquatic toxicity**Chronic toxicity to aquatic invertebrates**

NOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 16 mg/l

LOEC, Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 31 mg/l

Persistence and degradability

Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

10-day Window: Pass

Biodegradation: 97 %

Exposure time: 28 d

Method: OECD Test Guideline 301A or Equivalent

10-day Window: Not applicable

Biodegradation: 89 %

Exposure time: 14 d

Method: OECD Test Guideline 302B or Equivalent

Theoretical Oxygen Demand: 2.04 mg/mg

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 0.097 d

Method: Estimated.

Bioaccumulative potential

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): -2.3 at 25 °C Measured

Bioconcentration factor (BCF): < 3.9 Cyprinus carpio (Carp) 42 d Measured

Mobility in soil

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 10 Estimated.

13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and

compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

14. TRANSPORT INFORMATION

DOT

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.(Diethanolamine)
UN number	UN 3082
Class	9
Packing group	III
Reportable Quantity	Diethanolamine

Classification for SEA transport (IMO-IMDG):

	Not regulated for transport
Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Pennsylvania Worker and Community Right-To-Know Act:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

Components

N,N-Diethanolamine

CASRN

111-42-2

United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

:

16. OTHER INFORMATION

Product Literature

Additional information on this product may be obtained by calling your sales or customer service contact. Ask for a product brochure. Additional information on this and other products may be obtained by visiting our web page.

Hazard Rating System**NFPA**

Health	Fire	Reactivity
1	1	0

Revision

Identification Number: 101233059 / A001 / Issue Date: 03/11/2015 / Version: 15.0

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

Legend

Absorbed via skin	Absorbed via skin
ACGIH	USA. ACGIH Threshold Limit Values (TLV)
Dow IHG	Dow Industrial Hygiene Guideline
TWA	8-hour, time-weighted average

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE MMLJ. INC. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

Blast Pot Warranty

MMLJ, Inc. ® Warranty

Limited Lifetime

This warranty applies only to products manufactured or distributed by MMLJ, Inc. under the Dustless Blasting™ brand name. This product is backed by a lifetime warranty, excluding only expendable parts such as paint, finish, and accessories., which are covered by manufacturer other than MMLJ, Inc. This warranty extends only to you, the original purchaser. It is not transferable to anyone who subsequently purchases the product from you.

MMLJ, Inc. warrants that the product you have purchased is free from defects in materials or workmanship under normal use during the warranty period. Your sales receipt, showing the date of purchase for this product, is your proof of the date of purchase. This warranty becomes valid only if the product is assembled/installed according to the instructions/directions included with the product.

During the warranty period, MMLJ will repair or replace (at MMLJ's option) the product if it becomes defective or otherwise fails to conform to this Warranty under normal use. In repairing the product, MMLJ may replace defective part with new, or at the option of MMLJ, serviceable used parts that are equivalent to new parts in performance. MMLJ reserves the right to change manufacturers of any part to cover any existing warranty. This extends to items normally covered by a manufacturer other than MMLJ, Inc. used on this product within the first calendar year of purchase.

This warranty does not cover shipping charges; export taxes, custom duties and taxes, or any other charges associated with transportation of the parts or products. To obtain warranty service, you must contact MMLJ customer service representative at our phone number located in this manual. Any parts determined to be defective must be brought to the attention of MMLJ, Inc. within 6 months of delivery of equipment. You must prepay any shipping charges, export taxes, custom duty taxes, or any other charges associated with transportation of the parts or product. In addition, you are responsible for insuring any parts or product shipped or returned. You assume the risk of loss during the shipment. You must present MMLJ with proof-of-purchase documents (including the date of purchase). Any evidence of alteration, erasure, or forgery of proof-of-purchase documents will be cause to void this warranty.

This Limited/Lifetime Warranty does not extend to any product that has been damaged or rendered defective (a) as a result of accident, misuse, or abuse (b) by the use of parts not manufactured or sold by MMLJ and/or (c) by modification or improper installation of the product. Product on which the serial number has been defaced or removed is not eligible for warranty service. Should any product submitted for warranty service be found ineligible, an estimate of repair cost will be furnished and the repair will be made if requested by you upon MMLJ receipt of payment or acceptable arrangements for payment. Except, as expressly set forth in this warranty, MMLJ makes no other warranties, expressed or implied. This is the only express warranty applicable to Dustless Blasting™ branded products. MMLJ does not assume, nor authorize anyone to assume for it any other express warranty.

Notes:

Make notes to keep track of when your machine was serviced.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

