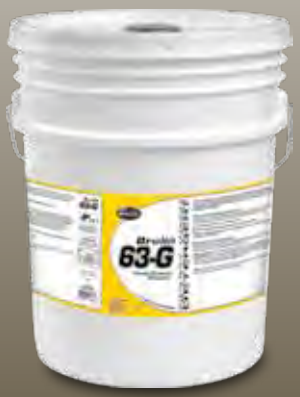
BRULIN 63-G

Heavy-Duty Spray Wash Detergent

Aggressive cleaning for the most tenacious soils, and broad compatibility with steel, aluminum and most common substrates – Brulin 63-G is the ideal detergent for automotive rebuild and other heavy-duty spray wash cleaning processes.

- **Heavy-Duty Cleaning**
  Cleans stubborn greases and carbonized soils on most common substrates

Moderately Alkaline Cleaner for Heavy Oils, Greases & Carbon Soils



Benefits

- **Water-Based, Dilutable Formulation –** For Environmental Safety & Economy of Use
- **Extends Bath Life –** Creates Labor Savings & Reduces Costs
- **In-Process Corrosion Control**
- **Paintable Corrosion Control –** In-Process & Post-Cleaning (up to 5 days)
- **Low Foaming at Temperatures Greater Than 120°F (49°C)**
- **Free Rinsing –** Cleaner Parts & Simplified Cleaning

Greener 12 Ways

More user and environmentally friendly, reducing costly paperwork

1. No Ozone Depleting Substances
2. No Global Warming Potential
3. No RCRA Reportable Ingredients
4. Moderate Caustic
5. No Glycol Ethers
6. No APs (Alkylphenols) or APEs (Alkylphenol ethoxylates)
7. No Chelants
8. No Butyl
9. No Amines
10. Recycles Easily
11. Biodegradable
12. RoHS Compliant

Spray Wash Detergent

BRULIN 63-G

Performance Properties

Substrates

Brulin 63-G is non-corrosive and non-staining to a wide variety of alloys. Some selected categories of materials compatible with Brulin 63-G include:*

Ferrous Metals: Carbon Steel • Stainless Steel

Non-Ferrous Metals & Alloys: Magnesium & Magnesium Alloys

Plastic & Composites: High Density Polyethylene/HDPE • Nitrile Butadiene Rubber • Polyvinyl Chloride/PVC

Soils

Brulin 63-G removes a wide range of organic and inorganic soils. Some categories of soils that can be removed with Brulin 63-G include:*

Buffing Compounds • Carbon Build-up • Coolants • Dirt (Particulate) • Fat • Fluorinated Greases • Grease • Oil (General, Cutting, Drawing Compounds, Fingerprints, Forming, Honey, Hydrocarbon, Lubricants, Self Emulsifying, Silicone/Greases, Sulfur/Chlorinated, Water Soluble)

**Material compatibility should always be confirmed via testing with specific contaminants under specific cleaning conditions.*

Use Ranges

System	Spray Wash Systems (Batch or Continuous)
Dilution	3-15%, typically used at 5%
Cleaning Temperature Range	130-160°F (54-71°C)
Cleaning Duration	1-30 minutes; typically parts are clean in 3-10 minutes
Rinse Temperature	A heated rinse may improve overall performance. Some OEM process specifications may require a heated rinse.
Rinse Water Quality	Recommended conductivity of final rinse water: • Ultra-Clean Applications: ≤ 50 microsiemens • Precision Cleaning: ≤ 500 microsiemens • Gross Cleaning: > 500 microsiemens

• To avoid spotting, it is best if the parts remain wet between processing stages.
• 63-G contains an effective, paintable, short-term corrosion inhibitor that protects steel substrates. Extended corrosion protection can be achieved with Brulin Metal Film corrosion inhibitors. Consult Brulin for information and recommendations.

Typical Chemical Characteristics

Physical Form	Liquid
Color	Yellow
Odor/Fragrance	Mild
Viscosity	Water-thin
Weight	9.43 lbs/gal (1.13 g/ml)
pH of Concentrate	13.4
pH of Working Solution	12.5
Flash Point	None
Foaming Tendency	Low
Cloud Point	> 110°F (43°C)
Calculated V.O.C	0% (0 g/l)
Freeze/Thaw	Reusable after thawing & remixing

Concentration Verification

Brulin Titration Kit (Prod. No. XTRKIT)	
Sample Size:	10 mL
Titrant:	1.0 N HCl Solution
Indicator:	Bromophenol Blue – 3 drops
Concentration %:	Drops Titrant x 0.49
or	
Sample Size:	50 mL
Titrant:	0.5 N HCl Solution
pH Endpoint:	3.8
Concentration %:	Drops Titrant x 1.12

Burette Test Method	
Sample Size:	50 mL
Titrant:	0.5 N HCl Solution
pH Endpoint:	4.50
Concentration %:	mL Titrant x 1.27

DISTRIBUTED BY:

PRODUCT NUMBER
432001

Safety

DANGER: Will cause burns to eyes, skin and gastrointestinal tract. Avoid contact. Do not ingest. Wear chemically resistant (butyl rubber) gloves and eye protection when handling concentrate. Contains potassium hydroxide, sodium nitrite and sodium metasilicate.

Hazard Rating
0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

HMIS		NFPA
3	HEALTH	3
0	FLAMMABILITY	0
0	REACTIVITY	0

FIRST AID: ***Eye Contact:*** Flush with large amounts of water for 20 minutes, lifting upper and lower lids occasionally. Get medical attention if irritation develops or persists. ***Skin Contact:*** Rinse with running water for at least 20 minutes. Remove contaminated clothing and launder before reuse. ***Inhalation:*** If affected, remove to fresh air. ***Ingestion:*** If conscious, dilute by giving water. Do not induce vomiting without medical advice. Keep warm, quiet and get immediate medical attention.

PRECAUTIONS
- MINIMUM RECOMMENDED CONCENTRATION FOR CLEANING ALUMINUM IS 4.0%
- KEEP OUT OF REACH OF CHILDREN
- FOR INDUSTRIAL OR COMMERCIAL USE ONLY

Packaging

SHIPPING: Packing Group II.

STORAGE: Store in well-ventilated areas at temperatures between 40-110°F (4-43°C). The recommended shelf life of this product is 24 months.

DISPOSAL: Biodegradable. Pretreat by skimming and/or filtering. Final sewerability is determined by the municipal sewer district covering the plant location.

AVAILABILITY:
- 5 Gal (19L)
- 55 Gal (208L)
- 275 Gal Tote (1,041L)
- Bulk - up to 5,000 Gal (~19,000L)

Companion Products

Brulin 1990 GD
The Industry Standard Spray Wash Detergent

815 QR
Heavy-Duty Immersion & Ultrasonic Detergent

800.776.7149
WWW.BRULIN.COM
ISO 9001:2000 CERTIFIED

431-208B