



TECHNICAL DATA

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TRICK SHOT ASPHALT SOLVENT & CLEANER ®

Bio-based Trick Shot® Sustainable Products Asphalt SOLVENT AND CLEANER® has been specifically developed as an environmentally friendly alternative for the asphalt production, paving, and maintenance industries. TSAS&C® is a high-performance product that dissolves bitumen, tar, oil, and tack from paving machinery, equipment, and tools.

Product Applications:

Cleaning and Preventing Buildup: TSAS&C® outperforms diesel fuel for all of your continuous and end-of-day cleaning needs. Spray, dip, or rinse shovels, rakes, pavers, hoppers, tanks, pots, lutes, tampers, rollers, screeds, squeegees and even shoes. TSAS&C® works on all types of hot, warm, and cold mixes as well as tack and sealcoats.

Hardened Deposits and Crystallized Tack: TSAS&C® is excellent at breaking down the most difficult of asphalt cleaning needs. Problem areas can be soaked for minutes, hours, overnight or even weekends as TSAS&C® evaporates slowly and continues to work. For heavy deposits, re-wetting can be helpful as TSAS&C® can dilute as it soaks in deeply and run off along with the dissolved waste oils.

Usage as a Release Agent*: TSAS&C® is an excellent and long lasting pre-treat release for hand tools, hoppers, loaders, shuttle buggies, and truck beds. Apply a thin layer to your surfaces before filling and sticky asphalt products will slide right off. With its low evaporation rate and high flash point, a single application of TSAS&C® will prevent sticking for multiple usages. *As with ANY product that melts and separates the binder from the aggregate, TSAS&C® is not AASHTO/NTPEP approved for usage as a release in every State's DOT managed highway projects. Consult your State's DOT regulations, your DOT highway contract, or write sales@staarlubricants.com for more information.

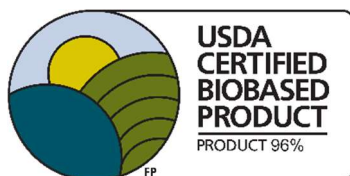
Worker Friendly and Machine Lubricating: TSAS&C® performs without harsh chemicals and odors and is even safe for contact/cleaning of skin. Whether used strictly as a lubricant or left residually after cleaning, TSAS&C® will lubricate and protect moving parts such as screws, bearings, sprockets, augers, and chains.

EPA Designated Environmentally Acceptable Lubricant: Trick Shot AS&C® complies with The Clean Water Act (CWA) through its designation as an Environmentally Acceptable Lubricant (EAL). Using TSAS&C® around the job or around the plant will not harm the environment and will pass regulator/governmental snap inspections or ongoing compliance checks.

USDA Certified Biobased and Renewable: Trick Shot® has been registered with the USDA at 96% biobased Carbon content. Before performance additives, TSAS&C®'s base oil is Soy Oil Plus which is created from US grown soybeans processed through a proprietary chemical conversion loosely related to making biodiesel.

Warnings: STAAR Lubricants recommends the usage of stainless steel for spray orifices, Nitrile for O-rings, and steel or thick-walled HDPE or PET plastics for containers. Write sales@staarlubricants.com for more information and recommendations.

TYPICAL PROPERTIES AND TESTING STANDARDS ON NEXT PAGE



USDA BioPreferred Program Notification of Certification*:

Trick Shot® Penetrating Lubricant, Application ID/Date: 8868/January 21, 2021

Safety Data Sheets (SDS)*:

Part Number TSASPH16OZ, TSASPH1GAL, TSASPH55GAD, TPASPH275GA, etc (Liquid)

*SDS and Certification Letters available at: www.itdoesthetrick.com/downloads/

EPA EAL Compliance:

ASTM D5864 (Biodegradability), OECD 202 (Aquatic Toxicity), OECD 117 (Bioaccumulation)

NSF Registration*:

Trick Shot® Penetrating Lubricant, Category Code: H1; 159234/May 14, 2019

Ingredients:

Soy Oil Plus (soybean oil modified with extensive proprietary/trade secret process)

Proprietary, non-toxic polymers

Package Availability:

4 oz plastic dropper, 16 oz plastic spray, 1 gal steel cans, 5 gal poly container, 55 gal drum, 275 gal IBC tote. All packaging used for Trick Shot® Asphalt Cleaner and Release is recyclable.

Country of Origin: United States of America

Typical Test Data:

Property	Test Method	Typical Result
USDA Bio-Preferred Program	ASTM D6866	96% Biobased
VOC Content	EPA 24	6.9 g/L (0.7%)
Density	ASTM D 4052	0.89198 g/cm3
Weight Factor		7.4439 lbs/gal
Pour Point	ASTM D5950	-15 Deg F
Flash Point	ASTM D92	371 Deg F
Distillation (Boiling Point)	ASTM D86	95% at 614.5 Deg F
Vapor Pressure	ASTM D323	1600 psi
Coefficient of Friction at 300 lbs	ASTM D3233B	0.0159
Coefficient of Friction at 1000 lbs	ASTM D3233B	0.0441
4 Ball Wear-Oil	ASTM D4172	0.68 mm Scar
Falex Pin & Vee EP Lube Direct Load, Ref Load	ASTM D3233A	1250 lbs, 1750 lbs
Kinematic Viscosity at 40C	ASTM D445	5.2037 cSt
Kinematic Viscosity at 100C	ASTM D445	2.0038 cSt
Viscosity Index	ASTM D2270	238.57
Dielectric Breakdown Voltage	ASTM D877	20.5 KV
pH at 25C	ASTM D1293	8.28
Rust Test - Deionized Water. 4 Hr Run Time	ASTM D665a	PASS
Rust Test - Synthetic Sea Water. 4 Hr Run Time	ASTM D665b	PASS