

Safety Data Sheet

Issue Date: 22-Apr-2016

Revision Date: 22-Apr-2016

547521 REV C

1. IDENTIFICATION

Product Identifier

Product Name Power Flush Solvent

Other means of identification

SDS# 547521

Product Code 17565, 17609

Recommended use of the chemical and restrictions on use

Synonyms N/A

Supplier's details

Recommended Use Restricted to professional users. Automotive/Vehicle/HVAC related

Uses advised against No information available

Details of the supplier of the safety data sheet

Bosch Automotive Service Solutions Inc.
655 Eisenhower Drive
Owatonna, MN 55060 USA

Emergency Telephone Number

USA 1-800-822-5561

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 2B
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word

Warning

Hazard Statements

H302 - Harmful if swallowed
H316 - Causes mild skin irritation
H320 - Causes eye irritation
Flammable liquid and vapor



Appearance Colorless to slightly yellow liquid	Physical State Liquid	Odor No information available
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Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces — No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment
 P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
 P242 - Use only non-sparking tools
 P243 - Take precautionary measures against static discharge
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
 P403 + P235 - Store in a well-ventilated place. Keep cool
 P501 - Dispose of contents/container to industrial incineration plant
 P312 - Call a POISON CENTER or doctor if you feel unwell
 P332 + P313 - If skin irritation occurs: Get medical advice/attention
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337 + P313 - If eye irritation persists: Get medical advice/attention
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 P330 - Rinse mouth
 P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %	Trade Secret
C9-C11 Isoalkanes	68551-16-6	90-100	*
2,6-Dimethyl-7-octen-2-ol	18479-58-8	5-10	*

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician. Do NOT induce vomiting. Rinse mouth.
Protection of first-aiders	Use personal protective equipment.
<u>Most important symptoms/effects, acute and delayed</u>	
Main Symptoms	No information available.
<u>Indication of immediate medical attention and special treatment needed, if necessary</u>	
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use: Dry chemical. Carbon dioxide. (CO2). Water spray. Alcohol-resistant foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

Sensitivity to mechanical impact: None

Sensitivity to static discharge: Yes

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. Use personal protective equipment.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Do not use mobile phones during handling. Never pierce, drill, grind, cut, saw, or weld any empty container.

Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

Incompatible products Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Exposure controls

Engineering measures Showers
Eyewash stations
Ventilation systems. Apply technical measures to comply with the occupational exposure limits.
Process enclosure and/or ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protections Tightly fitting safety goggles. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection. If splashes are likely to occur, wear: face shield, goggles.

Skin and body protection Skin and body protection. Wear protective gloves and protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene measures When using, do not eat, drink, or smoke. Regular cleaning of equipment, work area, and clothing is recommended. Do not eat, drink, or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and chemical properties**

Physical state Liquid
Appearance Colorless to slightly yellow liquid
Odor No information available
Odor threshold No information available

Property	Value	Remarks/Method
pH	No information available	
Melting point	N/A	
Boiling point/boiling range	No information available	
Flash point	39°C/102.9°F	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor pressure	6	
Vapor density	No information available	
Specific gravity	No information available	
Solubility in other solvents	No information available	

Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition products

May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product information

Inhalation	Avoid breathing vapors or mists.
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Not an expected route of exposure. Do not taste or swallow.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ systemic toxicity (single exposure)	No information available.
Specific target organ systemic toxicity (repeated exposure)	No information available.

Aspiration hazard No information available.

Numerical measures of toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	45000 mg/kg
ATEmix (dermal)	62500 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

100% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste disposal methods Should not be released into the environment. This material, as supplied, is hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with all applicable national environmental laws and regulations. Dispose of in accordance with local regulations.

Contaminated packaging Do not reuse empty containers. Dispose of in accordance with local regulations.

US EPA waste number D001

14. TRANSPORT INFORMATION

DOT

UN/ID no	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Description	UN3295, Hydrocarbons, liquid, n.o.s., 3, III
Emergency Response Guide Number	128

TDG

UN/ID no	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Description	UN3295, Hydrocarbons, liquid, n.o.s., 3, III

MEX

UN/ID no	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Description	UN3295, Hydrocarbons, liquid, n.o.s. (C9-C11 Isoalkanes, 2,6-Dimethyl-7-octen-2-ol), 3, III

ICAO
UN/ID no UN3295
Proper shipping name HYDROCARBONS, LIQUID, N.O.S.
Hazard Class 3
Packing Group III
Description UN3295, Hydrocarbons, liquid, n.o.s., 3, III

IATA
UN/ID no UN3295
Proper shipping name HYDROCARBONS, LIQUID, N.O.S.
Hazard Class 3
Packing Group III
Description UN3295, Hydrocarbons, liquid, n.o.s., 3, III

IMDG
UN/ID no UN3295
Proper shipping name HYDROCARBONS, LIQUID, N.O.S.
Hazard Class 3
Packing Group III
EmS No F-E, S-D
Description UN3295, Hydrocarbons, liquid, n.o.s., 3, III, (39°C c.c.)

RID
UN/ID no UN3295
Proper shipping name HYDROCARBONS, LIQUID, N.O.S.
Hazard Class 3
Packing Group III
Classification code F1
Description UN3295, Hydrocarbons, liquid, n.o.s., 3, III

ADR Forbidden

AND
UN/ID no UN3295
Proper shipping name HYDROCARBONS, LIQUID, N.O.S.
Hazard Class 3
Packing Group III
Classification code F1
Description UN3295, Hydrocarbons, liquid, n.o.s., 3, III
Limited quantity 5 L
Ventilation VE01

15. REGULATORY INFORMATION

International inventories

TSCA	Listed
EINECS/ELINCS	Listed
DSL	Listed
NDSL	Not determined
PICCS	Listed
ENCS	Not determined
IECSC	Listed
AICS	Listed
KECL	Listed
NZIoC	Not determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

REACH registration number Keystone has taken all relative steps to ensure REACH-compliance. Please contact us with any REACH-related questions at reach@keystone-europe.co.uk

RESTRICTIONS - REACH TITLE VIII No information available.

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirement of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

Mexico - Grade Moderate risk, Grade 2

Canada

WHMIS Note

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B3 Combustible liquid



HMIS **Health Hazard 1** **Flammability 2** **Physical Hazard 0** **Personal Protection H**

16. OTHER INFORMATION

Revision date	25-Apr-2016
Revision Note	No information available.
Restrictions on use	No information available.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet