

Title (en)  
Hard surface cleaning composition.

Title (de)  
Reinigungsmittel für harte Oberflächen.

Title (fr)  
Produit de nettoyage pour surfaces dures.

Publication  
**EP 0379093 A1 19900725 (EN)**

Application  
**EP 90100636 A 19900112**

Priority  
US 29986689 A 19890119

Abstract (en)  
A liquid, aqueous highly alkaline cleaning composition for removing organic soils, including burnt-on grease, from kitchen hard surfaces which exhibits no or minimal corrosion effects on aluminum and stainless steel comprises from about 0.1 to 0.5 wt-% alkali metal metasilicate; about 1 to 10 wt-% of an alkanolamine selected from mono-, di and tri-ethanolamine; from about 1 to 5 wt-% of an organic anionic surfactant selected from an alkali metal alkylbenzene sulfonate, an alkali metal alkyltoluene sulfonate and an alkyl ether sulfate; from about 1 to 10 wt-% of an organic solvent selected from a monohydric aliphatic alcohol having from 1 to 4 carbon atoms, and a monoalkyl ether of an alkylene, dialkylene or trialkylene glycol where alkyl has from 1 to 4 carbon atoms and alkylene has from 2 to 3 carbon atoms; and the remainder to 100 wt-% water.

IPC 1-7  
**C11D 3/00; C11D 3/08; C11D 3/20; C11D 3/30; C11D 3/43; C11D 17/00**

IPC 8 full level  
**C11D 10/02** (2006.01); **C11D 3/00** (2006.01); **C11D 3/08** (2006.01); **C11D 3/30** (2006.01); **C11D 3/43** (2006.01); **C11D 17/00** (2006.01); **C23G 1/14** (2006.01); **C23G 1/24** (2006.01)

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Citation (search report)  
• [Y] EP 0008805 A1 19800319 - HENKEL KGAA [DE]  
• [Y] GB 1297782 A 19721129  
• [A] US 4167488 A 19790911 - MURTAUGH JUSTIN J  
• [A] EP 0197193 A2 19861015 - PENNWALT CORP [US]  
• [A] US 3935129 A 19760127 - JABALEE WALTER J

Cited by  
US6380151B1; US5597793A; KR100447429B1; CN103582695A; FR2702775A1; US5447723A; EP0393772A3; WO2017097621A1; WO2015138578A1; WO9850518A1; WO9320176A1; WO20081609A3; WO2017215886A1; WO2017215845A1; US6503716B1; US6664220B2; WO9421776A1; WO9306814A1; WO9317087A1; WO2012160462A3; US9023782B2; US9994798B2; US11434451B2

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